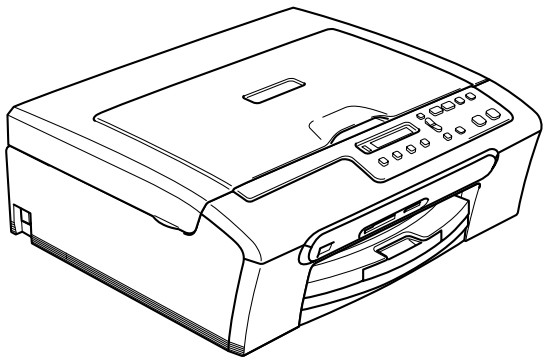
USER'S GUIDE

DCP-130C



CE

If you need to call Customer Service

Please complete the following information for future reference:

Model Number: DCP-130C

Serial Number: [1] _____

Date of Purchase: _____

Place of Purchase: _____

[1] **The serial number is on the back of the unit. Retain this User's Guide with your sales receipt as a permanent record of your purchase, in the event of theft, fire or warranty service.**

Register your product on-line at

http://www.brother.com/registration/

By registering your product with Brother, you will be recorded as the original owner of the product. Your registration with Brother:

- may serve as confirmation of the purchase date of your product should you lose your receipt; and
- may support an insurance claim by you in the event of product loss covered by insurance.

© 2006 Brother Industries, Ltd.

Compilation and Publication Notice

Under the supervision of Brother Industries Ltd., this manual has been compiled and published, covering the latest product descriptions and specifications.

The contents of this manual and the specifications of this product are subject to change without notice.

Brother reserves the right to make changes without notice in the specifications and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical and other errors relating to the publication.

EC Declaration of Conformity under the R & TTE Directive

brother

EC Declaration of Conformity

Manufacturer
Brother Industries, Ltd.
15-1, Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Plant
Brother Industries (Shen Zhen) Ltd
G02414-1, Bao Chang Li Bonded Transportation Industrial Park,
Bao Long Industrial Estate, Longgang, Shenzhen, China

Herewith declare that:

Products description : Copier Printer
Model Name : DCP-130C

are in conformity with provisions of the Directives applied : Low Voltage Directive 73/23/EEC (as amended by 93/68/EEC) and the Electromagnetic Compatibility Directive 89/336/EEC (as amended by 91/263/EEC and 92/31/EEC and 93/68/EEC).

Standards applied :
Harmonized : Safety EN60950-1:2001+A11:2004

EMC EN55022: 1998 +A1: 2000 +A2: 2003 Class B
EN55024: 1998 +A1: 2001 +A2: 2003
EN61000-3-2: 2000
EN61000-3-3: 1995 +A1: 2001

Year in which CE marking was first affixed : 2006

Issued by : Brother Industries, Ltd.

Date : 28th April, 2006

Place : Nagoya, Japan

Signature :

Takashi Maeda

Takashi Maeda
Manager
Quality Management Group
Quality Management Dept.
Information & Document Company

Table of Contents

Section I General

1 General Information

Using the documentation 2
Symbols and conventions used in the documentation 2
Accessing the Software User's Guide 3
Viewing Documentation 3
Control panel overview 6
Warning LED indications 8
Printing Reports 8

2 Loading documents and paper

Loading documents 9
Using the scanner glass 9
Scanning area 10
Acceptable paper and other media 10
Recommended media 11
Handling and using media 11
Choosing the right media 12
Loading paper, envelopes and other media 14
Loading paper and other media 14
Loading envelopes and post cards 16
Printable Area 18

Section II Copy

3 Making copies

How to copy 20
Making a single copy 20
Making multiple copies 20
Stop copying 20
Copy options 20
Changing copy speed and quality 21
Enlarging or reducing the image copied 21
Making N in 1 copies or a poster 22
Adjusting Brightness, Contrast and Colour 23
Paper options 24

Section III Direct Photo Printing

4 Printing photos from a memory card

PhotoCapture Center™ Operations....28
Printing from a memory card without a PC....28
Scanning to a memory card without a PC....28
Using PhotoCapture Center™ from your computer....28
Using memory cards....28
Memory card folder structure....29
How to print from a memory card....30
Printing the thumbnail index....31
Printing Images....31
DPOF printing....32
PhotoCapture Center™ print settings....33
Print quality....33
Paper Options....33
Adjusting Brightness, Contrast and Colour....34
Cropping....35
Borderless printing....36
Scan to Card....36
Changing the image quality....37
Changing the monochrome file format....37
Changing the colour file format....37
Understanding the Error Messages....38

5 Printing photos from a camera with PictBridge

Before Using PictBridge....39
PictBridge requirements....39
Using PictBridge....39
Setting your digital camera....39
Printing Images....40
DPOF printing....40
Understanding the Error Messages....41

Section IV Software

6 Software features

Section V Appendixes

A Safety and Legal

Choosing a location 46
To use the machine safely 47
Important safety instructions 50
IMPORTANT - For your safety 51
EU Directive 2002/96/EC and EN50419 51
Legal limitations for copying 52
Trademarks 53

B Troubleshooting and Routine Maintenance

Troubleshooting 54
If you are having difficulty with your machine 54
Error messages 57
Changing LCD language 59
Improving the LCD viewing 59
Printer jam or paper jam 59
Routine maintenance 61
Replacing the ink cartridges 61
Cleaning the outside of the machine 63
Cleaning the scanner 64
Cleaning the machine printer platen 64
Cleaning the Paper Pick-up Roller 65
Cleaning the print head 65
Checking the print quality 66
Checking the printing alignment 67
Checking the ink volume 67
Machine Information 68
Checking the serial number 68
Packing and shipping the machine 68

C Menu and Features

On-screen programming 70
Menu table 70
Menu keys 70
Menu Table 72

D Specifications

General 76
Print media 78
Copy 79
PhotoCapture Center™ 80
PictBridge 80
Scanner 81
Printer 82
Interfaces 83
Computer requirements 84
Consumable items 85

E Glossary

F Index

Section I

General

General Information	2
Loading documents and paper	9

1 General Information

Using the documentation

Thank you for buying a Brother machine! Reading the documentation will help you make the most of your machine.

Symbols and conventions used in the documentation

The following symbols and conventions are used throughout the documentation.

Bold	Bold typeface identifies specific keys on the machine control panel.
Italics	Italicized typeface emphasizes an important point or refers you to a related topic.
`Courier New`	Text in the Courier New font identifies messages on the LCD of the machine.

Warnings tell you what to do to prevent possible personal injury.

Electrical Hazard icons alert you to possible electrical shock.

Hot Surface icons warn you not to touch machine parts that are hot.

Cautions specify procedures you must follow or avoid to prevent possible damage to the machine or other objects.

Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features.

Improper Setup icons alert you to devices and operations that are not compatible with the machine.

Accessing the Software User's Guide

This User's Guide does not contain all the information about the machine such as how to use the advanced features of the Printer and Scanner. When you are ready to learn detailed information about these operations, read the Software User's Guide that is on the CD-ROM.

Viewing Documentation

Viewing Documentation (For Windows®)

To view the documentation, from the **Start** menu, point to **Brother**, **DCP-XXXX** (where XXXX is your model number) from the programs group, and then select **User's Guide**.

If you have not installed the software, you can find the documentation by following the instructions below:

1. Turn on your PC. Insert the Brother CD-ROM labelled Windows® into your CD-ROM drive.
2. If the model name screen appears, click your model name.
3. If the language screen appears, click your language.
   The CD-ROM main menu will appear.

Note

If this window does not appear, use Windows® Explorer to run the setup.exe program from the root directory of the Brother CD-ROM.

4. Click **User's Guide** to view the Software User's Guide in HTML format.

How to find Scanning instructions

There are several ways you can scan documents. You can find the instructions as follows:

Software User's Guide

- *Scanning*
  (For Windows® 98/98SE/Me/2000 Professional and Windows® XP)
- *ControlCenter3*
  (For Windows® 98/98SE/Me/2000 Professional and Windows® XP)

PaperPort® SE with OCR User's Guide

- Instructions for scanning directly from ScanSoft® PaperPort®. The complete ScanSoft® PaperPort® SE with OCR User's Guide can be viewed from the Help selection in the ScanSoft® PaperPort® SE with OCR application.

Viewing Documentation (For Macintosh®)

1. Turn on your Macintosh®. Insert the Brother CD-ROM labelled Macintosh® into your CD-ROM drive. The following window will appear.

2. Double-click the **Documentation** icon.
3. Double-click your language folder.
4. Double-click the top page file to view the Software User's Guide in HTML format.
5. Click the documentation you want to read.
   - **Software User's Guide:** Software User's Guide in HTML format

How to find Scanning instructions

There are several ways you can scan documents. You can find the instructions as follows:

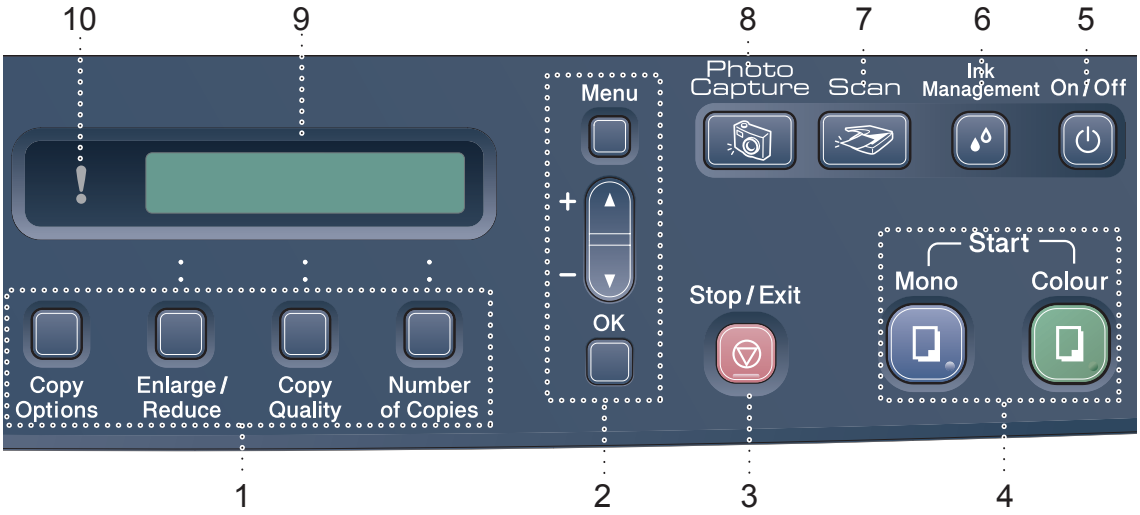
Software User's Guide

- *Scanning*
  (For Mac OS® X 10.2.4 or greater)
- *ControlCenter2*
  (For Mac OS® X 10.2.4 or greater)

Presto!® PageManager® User's Guide

- Instructions for scanning directly from Presto!® PageManager®. The complete Presto!® PageManager® User's Guide can be viewed from the Help selection in the Presto!® PageManager® application.

Control panel overview



1 Copy keys

Lets you temporarily change the copy settings when in copy mode.

- **Copy Options**
  You can quickly and easily select temporary settings for copying.
- **Enlarge/Reduce**
  Lets you enlarge or reduce copies depending on the ratio you select.
- **Copy Quality**
  Use this key to temporarily change the quality of your copies.
- **Number of Copies**
  Use this key to make multiple copies.

2 Menu keys:

- **Menu**
  Lets you access the main menu.
- +▲ or -▼
  Press to scroll through the menus and options.
- **OK**
  Lets you select a setting.

3 Stop/Exit

Stops an operation or exits from a menu.

4 Start keys:

- **Mono Start**
  Lets you start making copies in monochrome. Also lets you start a scanning operation (in colour or mono, depending on the scanning setting in the ControlCenter software).
- **Colour Start**
  Lets you start making copies in full colour. Also lets you start a scanning operation (in colour or mono, depending on the scanning setting in the ControlCenter software).

5 On/Off

You can turn the machine on or off.

If you turn the machine off, it will periodically clean the print head to maintain print quality.

6 Ink Management

Lets you clean the print head, check the print quality, and check the available ink volume.

7 **Scan**

Lets you access Scan mode.

8 **PhotoCapture**

Lets you access PhotoCapture Center™ mode.

9 **LCD (liquid crystal display)**

Displays messages on the screen to help you set up and use your machine.

10 **Warning LED**

Turns red when the LCD displays an error or an important status message.

Warning LED indications

The status LED (Light Emitting Diode) is a light that shows the DCP status.The LCD shows the current machine status when the machine is idle.

LED	DCP status	Description
Off	Ready	The DCP is ready for use.
Red	Cover open	The cover is open. Close the cover. (See *Error messages* on page 57.)
	Ink empty	Replace the Ink cartridge with a new one. (See *Replacing the ink cartridges* on page 61.)
	Paper error	Put paper in the tray or clear the paper jam. Check the LCD message. (See *Troubleshooting and Routine Maintenance* on page 54.)
	Other messages	Check the LCD message. (See *Troubleshooting and Routine Maintenance* on page 54.)

Printing Reports

The following reports are available:

- `Help List`

  A help list about how to quickly program your machine.

- `User Settings`

  Lists your settings.

How to print a report

1. Press **Menu**.
2. Press ▲ or ▼ to choose `3.Print Reports`.
   Press **OK**.
3. Press ▲ or ▼ to choose the report you want.
   Press **OK**.
4. Press **Mono Start**.

2 Loading documents and paper

Loading documents

You can make copies and scan from the scanner glass.

Using the scanner glass

You can use the scanner glass to copy or scan pages of a book or one page at a time.

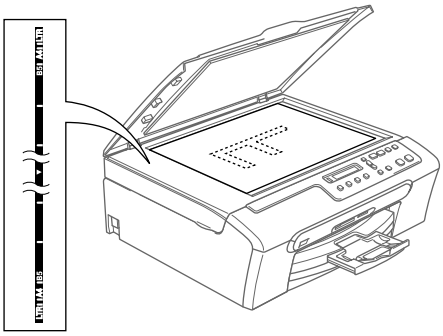
Document Sizes Supported

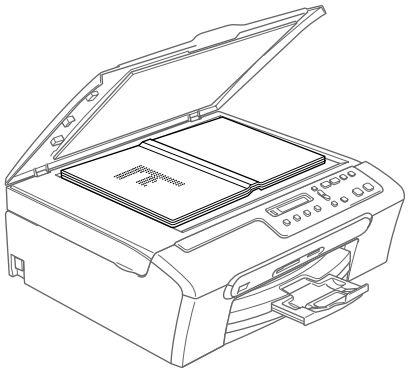
- Size: Up to A4 size [215.9 to 297 mm (8.5 to 11.7 in.)]
- Weight: Up to 2 kg (4.4 lb)

How to load documents

1. Lift the document cover.

2. Using the document guidelines on the left, center the document face down on the scanner glass.





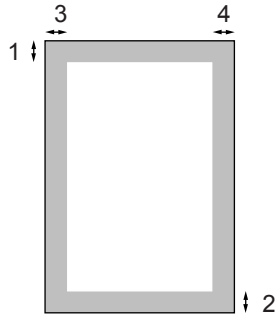
3. Close the document cover.

CAUTION

If you are scanning a book or thick document, DO NOT slam the cover or press on it.

Scanning area

The scanning area depends on the settings in the application you are using. The figures below show the areas you cannot scan on Letter and A4 paper.



Usage	Document Size	Top (1) Bottom (2)	Left (3) Right (4)
Copy	Letter	3 mm (0.12 in.)	3 mm (0.12 in.)
	A4	3 mm (0.12 in.)	3 mm (0.12 in.)
Scan	Letter	3 mm (0.12 in.)	3 mm (0.12 in.)
	A4	3 mm (0.12 in.)	0 mm (00 in.)

Acceptable paper and other media

The print quality can be affected by the type of paper you are using in the machine.

To get the best print quality for the settings you have chosen, always set the Paper Type to match the type of paper you load.

You can use plain paper, inkjet paper (coated paper), glossy paper, transparencies and envelopes.

We recommend testing various paper types before buying large quantities.

For best results, use the Brother paper.

- When you print on inkjet paper (coated paper), transparencies and photo paper, be sure to choose the proper media in the '**Basic**' tab of the printer driver or in the Paper Type setting of the menu.
- When you print on Brother photo paper, load the instruction sheet included with the photo paper in the paper tray first, and then put the photo paper on the instruction sheet.
- When you use transparencies or photo paper, remove each sheet at once to prevent smudging or paper jams.
- Avoid touching the printed surface of the paper immediately after printing; the surface may not be completely dry and may stain your fingers.

Recommended media

To get the best print quality, we suggest using Brother paper. (See table below.)

If Brother paper is not available in your country, we recommend testing various papers before purchasing large quantities.

We recommend using '3M Transparency Film' when you print on transparencies.

Brother paper

Paper Type	Item
A4 Plain	BP60PA
A4 Glossy Photo	BP61GLA
A4 Inkjet (Matte)	BP60MA
10 x 15 cm Glossy	BP61GLP

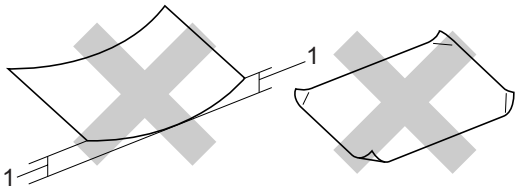
Handling and using media

- Store paper in its original packaging, and keep it sealed. Keep the paper flat and away from moisture, direct sunlight and heat.
- The coated side of photo paper is shiny. Avoid touching the shiny (coated) side. Load photo paper with the shiny side facing down.
- Avoid touching either side of transparencies because they absorb water and perspiration easily, and this may cause decreased output quality. Transparencies designed for laser printers/copiers may stain your next document. Use only transparencies recommended for inkjet printing.

Improper Setup

DO NOT use the following kinds of paper:

- Damaged, curled, wrinkled, or irregularly shaped paper



1 2 mm (0.08 in.) or longer

- Extremely shiny or highly textured paper
- Paper already printed on by a printer
- Paper that cannot be arranged uniformly when stacked
- Paper made with a short grain

Paper capacity of the output paper tray

Up to 50 sheets of 20 lb Letter or 80 g/m^2 A4 paper.

- Transparencies or photo paper must be picked up from the output paper tray one page at a time to avoid smudging.

Choosing the right media

Paper type and size for each operation

Paper Type	Paper Size		Usage		
			Copy	Photo Capture	Printer
Cut Sheet	Letter	216 × 279 mm (8 1/2 × 11 in.)	Yes	Yes	Yes
	A4	210 × 297 mm (8.3 × 11.7 in.)	Yes	Yes	Yes
	Legal	216 × 356 mm (8 1/2 × 14 in.)	Yes	–	Yes
	Executive	184 × 267 mm (7 1/4 × 10 1/2 in.)	–	–	Yes
	JIS B5	182 × 257 mm (7.2 × 10.1 in.)	–	–	Yes
	A5	148 × 210 mm (5.8 × 8.3 in.)	Yes	–	Yes
	A6	105 × 148 mm (4.1 × 5.8 in.)	–	–	Yes
Cards	Photo	10 × 15 cm (4 × 6 in.)	Yes	Yes	Yes
	Photo 2L	13 × 18 cm (5 × 7 in.)	–	Yes	Yes
	Index Card	127 × 203 mm (5 × 8 in.)	–	–	Yes
	Post Card 1	100 × 148 mm (3.9 × 5.8 in.)	–	–	Yes
	Post Card 2 (Double)	148 × 200 mm (5.8 × 7.9 in.)	–	–	Yes
Envelopes	C5 Envelope	162 × 229 mm (6.4 × 9 in.)	–	–	Yes
	DL Envelope	110 × 220 mm (4.3 × 8.7 in.)	–	–	Yes
	COM-10	105 × 241 mm (4 1/8 × 9 1/2 in.)	–	–	Yes
	Monarch	98 × 191 mm (3 7/8 × 7 1/2 in.)	–	–	Yes
	JE4 Envelope	105 × 235 mm (4.1 × 9.3 in.)	–	–	Yes
Transparencies	Letter	216 × 279 mm (8 1/2 × 11 in.)	Yes	–	Yes
	A4	210 × 297 mm (8.3 × 11.7 in.)	Yes	–	Yes

Paper weight, thickness and capacity

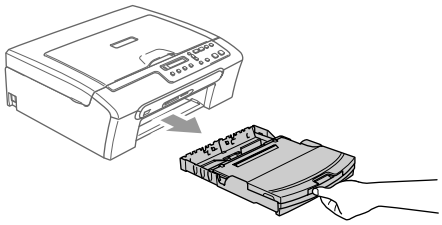
Paper Type		Weight	Thickness	No. of sheets
Cut Sheet	Plain Paper	64 to 120 g/m^2 (17 to 32 lb)	0.08 to 0.15 mm (0.003 to 0.006 in.)	100 [1]
	Inkjet Paper	64 to 200 g/m^2 (17 to 53 lb)	0.08 to 0.25 mm (0.003 to 0.01 in.)	20
	Glossy Paper	Up to 220 g/m^2 (Up to 58 lb)	Up to 0.25 mm (Up to 0.01 in.)	20
Cards	Photo Card	Up to 240 g/m^2 (Up to 64 lb)	Up to 0.28 mm (Up to 0.01 in.)	20
	Index Card	Up to 120 g/m^2 (Up to 32 lb)	Up to 0.15 mm (Up to 0.006 in.)	30
	Post Card	Up to 200 g/m^2 (Up to 53 lb)	Up to 0.23 mm (Up to 0.01 in.)	30
Envelopes		75 to 95 g/m^2 (20 to 25 lb)	Up to 0.52 mm (Up to 0.02 in.)	10
Transparencies		–	–	10

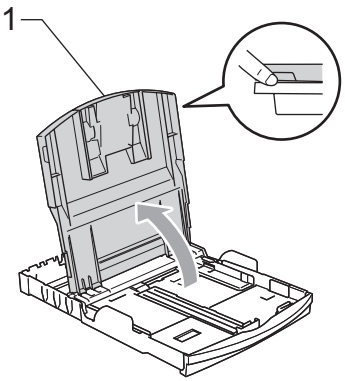
[1] Up to 50 sheets for Legal size paper 80 g/m^2 (20 lb).
Up to 100 sheets of 80 g/m^2 (20 lb) paper.

Loading paper, envelopes and other media

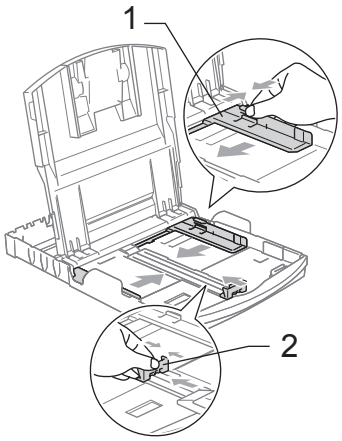
Loading paper and other media

1. Pull the paper tray completely out of the machine.
If the paper support flap is open, close it and lift the output paper tray cover (1).

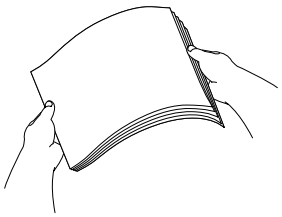




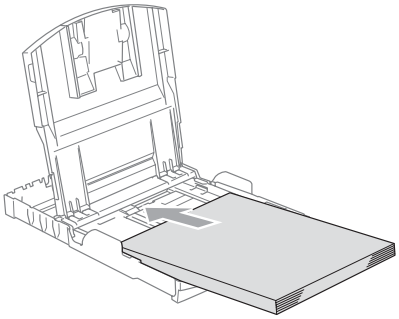
2. Press and slide the paper side guides (1) and paper length guide (2) to fit the paper size.



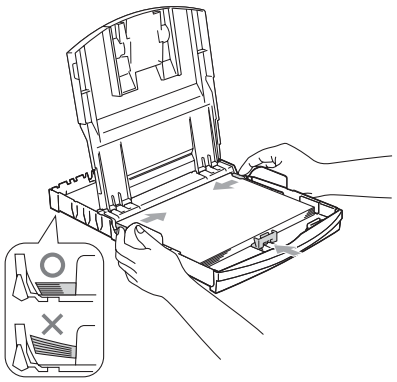
3. Fan the stack of paper well to avoid paper jams and misfeeds.



4. Gently put the paper into the paper tray print side down and top edge first.
Check that the paper is flat in the tray.



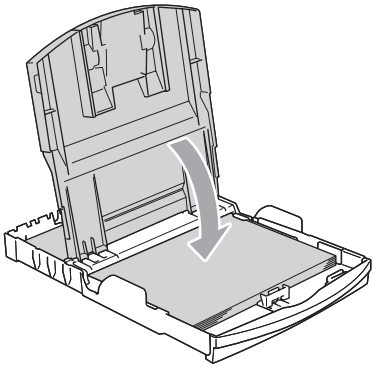
5 Gently adjust the paper side guides with both hands and the paper length guide to the paper.
Make sure the paper side guides touch the sides of the paper.



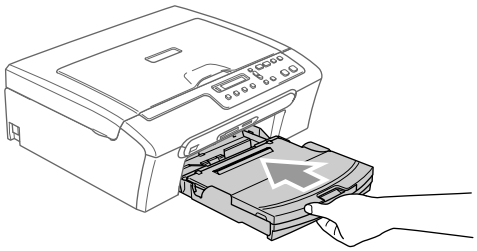
Note

Be careful that you do not push the paper in too far; it may lift at the back of the tray and cause feed problems.

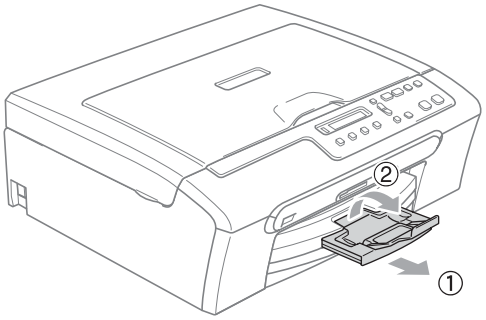
6 Close the paper tray cover.



7 Slowly push the paper tray completely into the machine.



8 While holding the paper tray in place, pull out the paper support (1) until it clicks and unfold the paper support flap (2).



Note

Do not use the paper support flap for Legal paper.

Loading envelopes and post cards

Loading envelopes

- Use envelopes that weigh from 75 to 95 g/m^2 (20 to 25 lb).
- Some envelopes need margin settings to be set in the application. Make sure you do a test print first.

CAUTION

Do not use any of the following types of envelopes, as they will cause paper feed problems:

- If they are of a baggy construction.
- That are embossed (have raised writing on them).
- That have clasps or staples.
- That are pre-printed on the inside.

Glue	Double flap

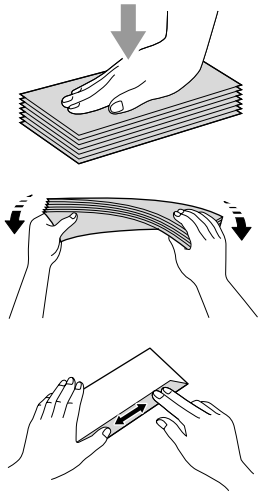
Occasionally you may experience paper feed problems caused by the thickness, size and flap shape of the envelopes you are using.

How to load envelopes and post cards

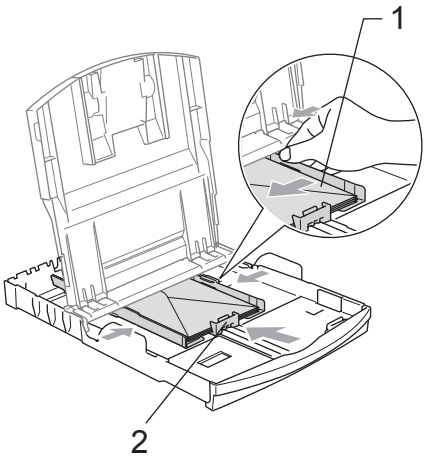
1. Before loading, press the corners and sides of the envelopes or post cards to make them as flat as possible.

Note

If the envelopes or post cards are 'double-feeding,' put one envelope in the paper tray at a time.

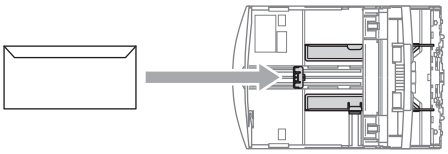


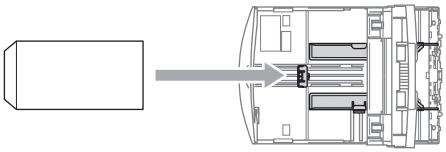
2. Put the envelopes or post cards into the paper tray with the address side down and the leading edge (top of the envelopes) in first. Slide the paper side guides (1) and paper length guide (2) to fit the size of the envelopes or post cards.



If you have problems when printing on envelopes, try the following suggestions:

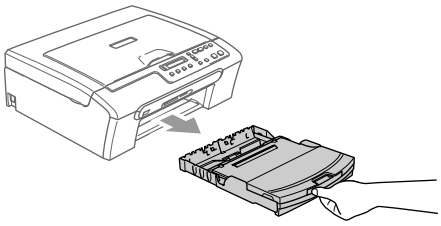
1. Open the envelope flap.
2. Make sure the open flap is either to the side of the envelope or to the back edge of the envelope when printing.
3. Adjust the size and margin in your application.





Note

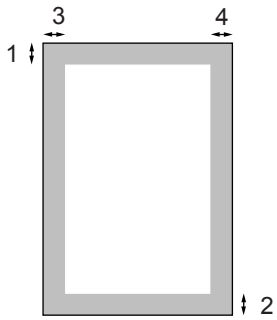
When the machine ejects small paper onto the output paper tray, you may not be able to reach it. Make sure printing has finished, and then pull the tray completely out of the machine.



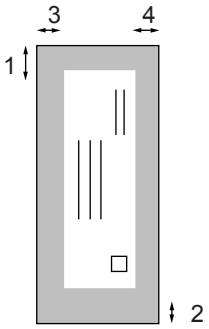
Printable Area

The printable area depends on the settings in the application you are using. The figures below show the unprintable areas on cut sheet paper and envelopes. The machine can only print in the shaded areas when the Borderless print feature is available and turned on.

Cut Sheet Paper



Envelopes



	Top (1)	Bottom (2)	Left (3)	Right (4)
Cut Sheet	3 mm (0.12 in.)	3 mm (0.12 in.)	3 mm (0.12 in.)	3 mm (0.12 in.)
Envelopes	12 mm (0.47 in.)	24 mm (0.95 in.)	3 mm (0.12 in.)	3 mm (0.12 in.)

Note

The Borderless feature is not available for envelopes.

Section II

Copy

Making copies 20

3 Making copies

How to copy

You can use your machine as a copier, making up to 99 copies at a time.

Making a single copy

1. Load your document.
2. Press **Mono Start** or **Colour Start**.

Making multiple copies

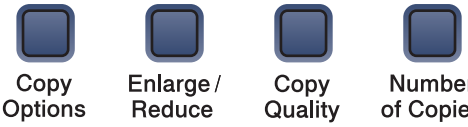
1. Load your document.
2. Press **Number of Copies** repeatedly until the number of copies you want appears (up to 99).
   Or press ▲ or ▼ to change the number of copies.
3. Press **Mono Start** or **Colour Start**.

Stop copying

To stop copying, press **Stop/Exit**.

Copy options

When you want to quickly change the copy settings temporarily for the next copy, use the temporary Copy keys. You can use different combinations.



The machine returns to its default settings 60 seconds after it finishes copying.

Note

You can save the copy settings you use most often by setting them as default. You can find instructions on how to do this in the section for each feature.

Changing copy speed and quality

You can select from a range of quality settings. The default setting is Normal.

To temporarily change the quality setting, follow the instructions below:

Press **Copy Quality** Copy Quality	Normal	Normal is the recommended mode for ordinary print outs. This produces good copy quality with good copy speed.
	Fast	Fast copy speed and lowest ink consumption. Use to save time printing documents to be proof-read, large documents or many copies.
	Best	Use best mode to copy precise images such as photographs. This provides the highest resolution and the slowest speed.

1. Load your document.
2. Press **Copy Quality** repeatedly to choose Fast, Normal or Best.
3. Press **Mono Start** or **Colour Start**.

To change the default setting, follow the instructions below:

1. Press **Menu**.
2. Press ▲ or ▼ to choose 1.Copy.
   Press **OK**.
3. Press ▲ or ▼ to choose 3.Quality.
   Press **OK**.
4. Press ▲ or ▼ to choose Fast, Normal or Best.
   Press **OK**.
5. Press **Stop/Exit**.

Enlarging or reducing the image copied

You can select the following enlargement or reduction ratios:

Custom(25-400%) allows you to enter a ratio from 25% to 400%.

Press **Enlarge/Reduce** Enlarge / Reduce	Custom(25-400%)
	200%
	198% 10×15cm→A4
	186% 10×15cm→LTR
	142% A5→A4
	104% EXE→LTR
	100%
	97% LTR→A4
	93% A4→LTR
	83%
	78%
	69% A4→A5
	50%

To enlarge or reduce the next copy follow the instruction below:

1. Load your document.
2. Press **Enlarge/Reduce**.
3. Choose one of the options below:
   - Use ▲ or ▼ to choose the enlargement or reduction ratio you want. Press **OK**.
   - Use ▲ or ▼ to choose `Custom(25-400%)`. Press **OK**. Press ▲ or ▼ repeatedly to enter an enlargement or reduction ratio from `25%` to `400%`. Press **OK**.
4. Press **Mono Start** or **Colour Start**.

Note

Page Layout Options 2 in 1 (P), 2 in 1 (L), 4 in 1 (P), 4 in 1 (L) or Poster are *not* available with **Enlarge/Reduce**.

Making N in 1 copies or a poster

You can reduce the amount of copies by using the N in 1 copy feature. This allows you to copy two or four pages onto one page, which allows you to save paper.

You can also produce a poster. When you use the poster feature your machine divides your document into sections, then enlarges the sections so you can assemble them into a poster.

Important

- Please make sure paper size is set to `A4`.
- You cannot use the Enlarge/Reduce setting with the N in 1 and Poster features.
- N in 1 colour copies are not available.
- (`P`) means Portrait and (`L`) means Landscape.
- You can only make one poster copy at a time.

Press **Copy Options** Copy Options and then ▲ or ▼ to choose `Page Layout`	`Off(1 in 1)`
	`2 in 1 (P)`
	`2 in 1 (L)`
	`4 in 1 (P)`
	`4 in 1 (L)`
	`Poster(3 × 3)`

1. Load your document.
2. Press **Copy Options** and ▲ or ▼ to choose `Page Layout`.
   Press **OK**.
3. Press ▲ or ▼ to choose `2 in 1 (P)`, `2 in 1 (L)`, `4 in 1 (P)`, `4 in 1 (L)`, `Poster(3 × 3)` or `Off(1 in 1)`.
   Press **OK**.
4. Press **Mono Start** to scan the document.
   You can also press **Colour Start** if you are using the Poster layout.
5. After the machine scans the page, press ▲ (`Yes`) to scan the next page.

```
Next Page?

▲Yes ▼No
```

6 Put the next document on the scanner glass. Press **OK**.
Repeat ❺ and ❻ for each page of the layout.

```
Set Next Page
```

```
Then Press OK
```

7 After all the pages have been scanned, press ▼ (No) to finish.

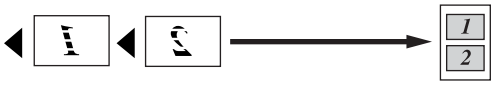
Note

If any photo paper is selected as the paper type setting for N in 1 copies, the images will be printed as if plain paper had been selected.

Place your document face down in the direction shown below:

■ **2 in 1 (P)**

■ **2 in 1 (L)**

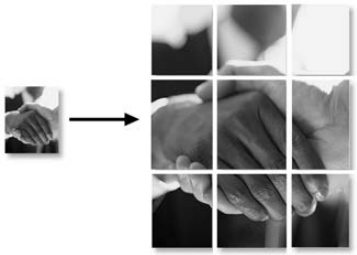


■ **4 in 1 (P)**

■ **4 in 1 (L)**

■ **Poster (3×3)**

You can make a poster size copy of a photograph.



Adjusting Brightness, Contrast and Colour

Brightness

To temporarily change the brightness setting, follow the instruction below:

Press **Copy Options** Copy Options and then ▲ or ▼ to choose Brightness	-□□■□□+

1 Load your document.

2 Press **Copy Options** and ▲ or ▼ to choose Brightness.
Press **OK**.

```
-□□■□□+
```

3 Press ▲ or ▼ to make a lighter or darker print.
Press **OK**.

4 Press **Mono Start** or **Colour Start**.

To change the default setting follow the instructions below:

1 Press **Menu**.

2 Press ▲ or ▼ to choose 1.Copy.
Press **OK**.

3 Press ▲ or ▼ to choose 4.Brightness.
Press **OK**.

4 Press ▲ or ▼ to make a lighter or darker print.
Press **OK**.

5 Press **Stop/Exit**.

Contrast

Adjust the contrast to help an image look sharper and more vivid.

The contrast can only be changed through the default setting.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.Copy`.
   Press **OK**.
3. Press ▲ or ▼ to choose `5.Contrast`.
   Press **OK**.
4. Press ▲ or ▼ to increase or decrease the contrast.
   Press **OK**.
5. Press **Stop/Exit**.

Colour saturation

The colour saturation can only be changed through the default setting.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.Copy`.
   Press **OK**.
3. Press ▲ or ▼ to choose `6.Color Adjust`.
   Press **OK**.
4. Press ▲ or ▼ to choose `1.Red`, `2.Green` or `3.Blue`.
   Press **OK**.
5. Press ▲ or ▼ to change the colour saturation.
   Press **OK**.
6. Choose one of the options below:
   - Return to ❹ to select the next colour.
   - Press **Stop/Exit**.

Paper options

Paper type

If you are copying on special paper, be sure to select the type of paper you are using so you will get the best print quality.

Press **Copy Options** Copy Options and then ▲ or ▼ to choose `Paper Type`	`Plain Paper`
	`Inkjet Paper`
	`Brother Photo`
	`Other Photo`
	`Transparency`

1. Load your document.
2. Press **Copy Options** and ▲ or ▼ to choose `Paper Type`.
   Press **OK**.
3. Press ▲ or ▼ to choose the type of paper you are using.
   Press **OK**.
4. Press **Mono Start** or **Colour Start**.

To change the default setting, follow the instruction below:

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.Copy`.
   Press **OK**.
3. Press ▲ or ▼ to choose `1.Paper Type`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Plain Paper`, `Inkjet Paper`, `Brother Photo`, `Other Photo` or `Transparency`.
   Press **OK**.
5. Press **Stop/Exit**.

Paper size

If copying on paper other than A4 size, you will need to change the paper size setting. You can copy on Letter, Legal, A4, A5 or Photo Card (10×15cm) paper.

Press **Copy Options** Copy Options and then ▲ or ▼ to choose `Paper Size`	`Letter`
	`Legal`
	`A4`
	`A5`
	`10(W)×15(H)cm`

1. Load your document.
2. Press **Copy Options** and ▲ or ▼ to choose `Paper Size`.
   Press **OK**.
3. Press ▲ or ▼ to choose the size of paper you are using.
   Press **OK**.
4. Press **Mono Start** or **Colour Start**.

To change the default setting, follow the instruction below:

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.Copy`.
   Press **OK**.
3. Press ▲ or ▼ to choose `2.Paper Size`.
   Press **OK**.
4. Press ▲ or ▼ to choose the paper size you are using, `Letter`, `Legal`, `A4`, `A5` or `10×15cm`.
   Press **OK**.
5. Press **Stop/Exit**.

Section III

Direct Photo Printing

Printing photos from a memory card 28

Printing photos from a camera with PictBridge 39

4 Printing photos from a memory card

PhotoCapture Center™ Operations

Printing from a memory card without a PC

Even if your machine is not connected to your computer, you can print photos directly from digital camera media. (See *How to print from a memory card* on page 30.)

Scanning to a memory card without a PC

You can scan documents and save them directly to a memory card. See *Scan to Card* on page 36.

Using PhotoCapture Center™ from your computer

You can access the memory card that is in the media drive (slot) of the machine from your PC.

(See *PhotoCapture Center*™ for Windows® or *PhotoCapture Center*™ for Macintosh® in the Software User's Guide on the CD-ROM.)

Using memory cards

Your Brother machine has media drives (slots) for use with popular digital camera media: CompactFlash®, Memory Stick® Memory Stick Pro™, SecureDigital™, MultiMediaCard™ and xD-Picture Card™.

CompactFlash®

Memory Stick®

Memory Stick Pro™

SecureDigital™

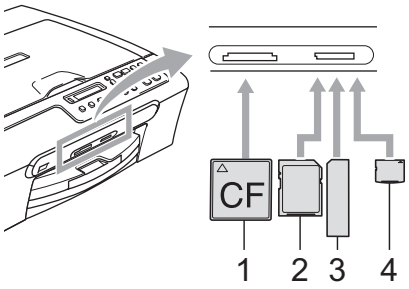
MultiMediaCard™

xD-Picture Card™

- miniSD™ can be used with a miniSD™ adapter.
- Memory Stick Duo™ can be used with a Memory Stick Duo™ adapter.
- Memory Stick Pro Duo™ can be used with a Memory Stick Pro Duo™ adapter.
- Adapters are not included with the machine. Contact a third party supplier for adapters.

The PhotoCapture Center™ feature lets you print digital photos from your digital camera at high resolution to get photo quality printing.

Firmly put the card into the appropriate slot.



1 **CompactFlash®**

2 **SecureDigital™, MultiMediaCard™**

3 **Memory Stick®, Memory Stick Pro™**

4 **xD-Picture Card™**

The **PhotoCapture** key will light to show the memory card status. It can be on, off or blinking.

- **On**

  A memory card is inserted correctly.

- **Off**

  No memory card is present, or it is incorrectly inserted.

- **Blinking**

  The inserted memory card is being read, or is being written to.

CAUTION

DO NOT unplug the power cord or remove the memory card from the media drive (slot) while the machine is reading or writing to the card (the **PhotoCapture** key is blinking). **You will lose your data or damage the card.**

The machine can only read one memory card at a time so do not put more than one card in a slot.

Memory card folder structure

Your machine is designed to be compatible with modern digital camera image files and memory cards; however, please read the points below to avoid errors:

- The DPOF file on the memory card must be in a valid format. (See *DPOF printing* on page 32.)
- The image file extension must be .JPG (Other image file extensions like .JPEG, .TIF, .GIF and so on will not be recognized).
- PhotoCapture Center™ printing without using a PC must be performed separately from PhotoCapture Center™ operations using the PC. (Simultaneous operation is not available.)
- IBM Microdrive™ is not compatible with the machine.
- The machine can read up to 999 files on a memory card.
- CompactFlash® Type II is not supported.
- This product supports xD-Picture Card™ Type M / Type H (Large Capacity).

Please be aware of the following:

- When printing the INDEX or IMAGE, the PhotoCapture Center™ will print all the valid images, even if one or more images have been corrupted. A portion of the corrupted image may be printed.
- Your machine is designed to read memory cards that have been formatted by a digital camera.

  When a digital camera formats a memory card it creates a special folder into which it copies image data. If you need to modify the image data stored on a memory card with your PC, we recommend that you do not modify the folder structure created by the digital camera. When saving new or modified image files to the memory card we also recommend you use the same folder your digital camera uses. If the data is not saved to the same folder, the machine may not be able to read the file or print the image.

How to print from a memory card

Before printing a photo you must first print a thumbnail index to choose the number of the photo you want to print. Follow the instructions below to start printing directly from your memory card:

1. Make sure you have put the memory card in the proper slot. The LCD will show the following message:

   ```
   C.Flash Active
   ```

   ```
   Press PhotoCa...
   ```

2. Press **PhotoCapture**. For DPOF printing, see *DPOF printing* on page 32.
3. Press ▲ or ▼ to choose `Print Index` and then press **OK**.
4. Press **Colour Start** to start printing the index sheet. Make a note of the image number you want to print. See *Printing the thumbnail index* on page 31.
5. To print images press ▲ or ▼ to choose `Print Images` in ❸ and then press **OK**. See *Printing Images* on page 31.
6. Enter the image number and press **OK**.
7. Press **Colour Start** to start printing.

Printing the thumbnail index

The PhotoCapture Center™ assigns each of your images a number. It does not recognize any other numbers or file names that your digital camera or PC may have assigned to the images.

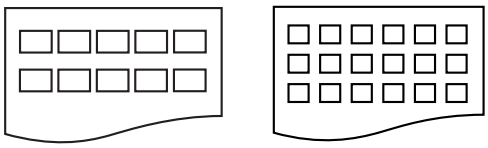
When you print a thumbnail page, it will show all of the pictures on your memory card and the number assigned to it. Even corrupted images may have part of the image printed.

1. Make sure you have put the memory card in the proper slot.

   Press (**PhotoCapture**).

2. Press ▲ or ▼ to choose `Print Index`.
   Press **OK**.

3. Press ▲ or ▼ to choose `6 Images/Line` or `5 Images/Line`.
   Press **OK**.



`5 Images/Line` `6 Images/Line`

Print time for 5 Images/Line will be slower than 6 Images/Line, but the quality is better.

4. Press **Colour Start** to print.

Printing Images

Before you can print an individual image, you have to know the image number.

1. Make sure you have put the memory card in the proper slot.

2. Print the index first. (See *Printing the thumbnail index* on page 31.)

   Press (**PhotoCapture**).

3. Press ▲ or ▼ to choose `Print Images`. Press **OK**.

Note

If your memory card contains valid DPOF information, the LCD will show `DPOF Print:Yes`, see *DPOF printing* on page 32.

4. Press ▲ repeatedly to enter the image number that you want to print from the thumbnail index.
   Press **OK**.

   `No.:1,3,6`

Note

- Press ▼ to decrease the image number.
- You can enter all the numbers at one time by using the **Copy Options** key for hyphen. (For example, Enter **1**, **Copy Options**, **5** to print images No.1 to No.5).

5. After you have selected all the images you want to print, press **OK** to select your settings.
   If you have already chosen your settings, press **Colour Start**.

6 Press ▲ or ▼ to choose the type of paper you are using, `Plain Paper`, `Inkjet Paper`, `Brother Photo` or `Other Photo`.
Press **OK**.

7 Press ▲ or ▼ to choose the paper size you are using, `Letter`, `A4`, `10×15cm` or `13×18cm`.
- If you selected Letter or A4, go to ❽.
- If you selected another size, go to ❾.
- If you have finished choosing settings, press **Colour Start**.

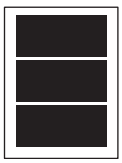
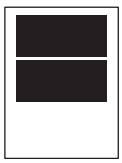
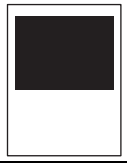
8 Press ▲ or ▼ to choose the print size (`10×8cm`, `13×9cm`, `15×10cm`, `18×13cm`, `20×15cm` or `Max. Size`).
Press **OK**.

9 Choose one of the options below:
- To choose the number of copies go to ❿.
- If you have finished choosing settings, press **Colour Start**.

10 Press ▲ or ▼ to enter the number of copies you want. Press **OK**.

11 Press **Colour Start** to print.

The printing positions when using A4 paper are shown below.

1 10×8cm	2 13×9cm	3 15×10cm
		
4 18×13cm	5 20×15cm	6 Max. Size
		

DPOF printing

DPOF stands for Digital Print Order Format.

Major digital camera manufacturers (Canon Inc., Eastman Kodak Company, Fuji Photo Film Co. Ltd., Matsushita Electric Industrial Co. Ltd. and Sony Corporation) created this standard to make it easier to print images from a digital camera.

If your digital camera supports DPOF printing, you will be able to choose on the digital camera display the images and number of copies you want to print.

It a memory card (CompactFlash®, Memory Stick®, Memory Stick Pro™, SecureDigital™ MultiMediaCard™ or xD-Picture Card™) containing DPOF information is put into your machine, you can print the chosen image easily.

To print directly from a memory card containing DPOF information on it follow the instructions below:

1 Firmly insert the memory card into the card slot.

`C.Flash Active`

Press (**PhotoCapture**).

2 Press ▲ or ▼ to choose `Print Images`. Press **OK**.

3 If there is a DPOF file on the card, the LCD will show:

`DPOF Print:Yes`

4 Press ▲ or ▼ to choose `DPOF Print:Yes`. Press **OK**.

5 Press ▲ or ▼ to choose the type of paper you are using, `Plain Paper`, `Inkjet Paper`, `Brother Photo` or `Other Photo`.
Press **OK**.

6 Press ▲ or ▼ to choose the paper size you are using, `Letter`, `A4`, `10×15cm` or `13×18cm`.
- If you selected Letter or A4, go to ❼.
- If you selected another size, go to ❽.
- If you have finished choosing settings, press **Colour Start**.

7 Press ▲ or ▼ to choose the print size (`10×8cm`, `13×9cm`, `15×10cm`, `18×13cm`, `20×15cm` or `Max. Size`).
Press **OK**.

8 Press **Colour Start** to print.

PhotoCapture Center™ print settings

These settings will remain until you change them again.

Print quality

1 Press **Menu**.

2 Press ▲ or ▼ to choose `2.PhotoCapture`.
Press **OK**.

3 Press ▲ or ▼ to choose `1.Print Quality`.
Press **OK**.

4 Press ▲ or ▼ to choose `Normal` or `Photo`.
Press **OK**.

5 Press **Stop/Exit**.

Paper Options

Paper Type

1 Press **Menu**.

2 Press ▲ or ▼ to choose `2.PhotoCapture`.
Press **OK**.

3 Press ▲ or ▼ to choose `2.Paper Type`.
Press **OK**.

4 Press ▲ or ▼ to choose `Plain Paper`, `Inkjet Paper`, `Brother Photo` or `Other Photo`.
Press **OK**.

5 Press **Stop/Exit**.

Paper Size

1. Press **Menu**.
2. Press ▲ or ▼ to choose `2.PhotoCapture`.
   Press **OK**.
3. Press ▲ or ▼ to choose `3.Paper Size`.
   Press **OK**.
4. Press ▲ or ▼ to choose the paper size you are using, `Letter`, `A4`, `10×15cm` or `13×18cm`.
   Press **OK**.
5. Press **Stop/Exit**.

Print Size

This setting is available only when you select Letter or A4 in the paper size setting.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `2.PhotoCapture`.
   Press **OK**.
3. Press ▲ or ▼ to choose `4.Print Size`.
   Press **OK**.
4. Press ▲ or ▼ to choose the print size you are using, `10×8cm`, `13×9cm`, `15×10cm`, `18×13cm`, `20×15cm` or `Max. Size`.
   Press **OK**.
5. Press **Stop/Exit**.

Adjusting Brightness, Contrast and Colour

Brightness

1. Press **Menu**.
2. Press ▲ or ▼ to choose `2.PhotoCapture`.
   Press **OK**.
3. Press ▲ or ▼ to choose `5.Brightness`.
   Press **OK**.
4. Press ▲ or ▼ to make a lighter or darker print.
   Press **OK**.
5. Press **Stop/Exit**.

Contrast

You can select the contrast setting. More contrast will make an image look sharper and more vivid.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `2.PhotoCapture`.
   Press **OK**.
3. Press ▲ or ▼ to choose `6.Contrast`.
   Press **OK**.
4. Press ▲ or ▼ to increase or decrease the contrast.
   Press **OK**.
5. Press **Stop/Exit**.

Colour Enhancement

You can turn on the colour enhancement feature to print more vivid images. Printing time will be slower.

1. Press **Menu**.

2 Press ▲ or ▼ to choose `2.PhotoCapture`.
Press **OK**.

3 Press ▲ or ▼ to choose `7.Color Enhance`.
Press **OK**.

4 Press ▲ or ▼ to choose `On` (or `Off`).
Press **OK**.
■ If selecting `Off`, then go to ❼.

5 Press ▲ or ▼ to choose `1.White Balance`, `2.Sharpness` or `3.Color Density`.
Press **OK**.

6 Press ▲ or ▼ to adjust the degree of the setting.
Press **OK**.

7 Press **Stop/Exit**.

Note

- **White Balance**

  This setting adjusts the hue of the white areas of an image. Lighting, camera settings and other influences will effect the appearance of white. The white areas of a picture may be slightly pink, yellow or some other colour. By using this, you can correct this effect and bring the white areas back to pure white.

- **Sharpness**

  This setting enhances the detail of an image, similar to adjusting the fine focus on a camera. If the image is not in true focus and you cannot see the fine details of the picture, then adjust the sharpness.

- **Colour Density**

  This setting adjusts the total amount of colour in the image. You can increase or decrease the amount of colour in an image to improve a washed out or weak picture.

Cropping

If your photo is too long or wide to fit the available space on your chosen layout, part of the image will be automatically cropped.

The default setting is `On`. If you want to print the whole image, turn this setting to `Off`.

1 Press **Menu**.

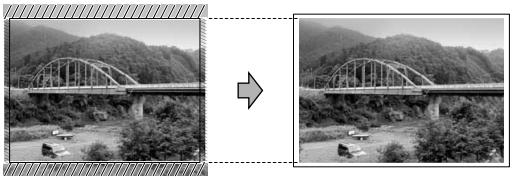
2 Press ▲ or ▼ to choose `2.PhotoCapture`.
Press **OK**.

3 Press ▲ or ▼ to choose `8.Cropping`.
Press **OK**.

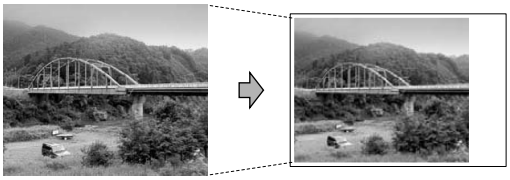
4 Press ▲ or ▼ to choose `Off` (or `On`).
Press **OK**.

5 Press **Stop/Exit**.

Cropping: On



Cropping: Off



Borderless printing

This feature expands the printable area to the edges of the paper. Printing time will be slightly slower.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `2.PhotoCapture`.
   Press **OK**.
3. Press ▲ or ▼ to choose `9.Borderless`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Off` (or `On`).
   Press **OK**.
5. Press **Stop/Exit**.

Scan to Card

You can scan monochrome and colour documents into a memory card. Monochrome documents will be stored in PDF (*.PDF) or TIFF file formats (*.TIF). Colour documents may be stored in PDF (*.PDF) or JPEG (*.JPG) file formats. The default setting is `Color 150 dpi` and the default file format is PDF. The machine automatically creates file names based on the current date. (For details, see the Quick Setup Guide.) For example, the fifth image scanned on July 1, 2006 would be named 01070605.PDF. You can change the colour and quality.

Quality	Selectable File Format
`Color 150 dpi`	`JPEG / PDF`
`Color 300 dpi`	`JPEG / PDF`
`Color 600 dpi`	`JPEG / PDF`
`B/W 200x100 dpi`	`TIFF / PDF`
`B/W 200 dpi`	`TIFF / PDF`

1. Insert a CompactFlash®, Memory Stick®, Memory Stick Pro™, SecureDigital™, MultiMediaCard™ or xD-Picture Card™ into your machine.

WARNING

Do not take out the memory card while **PhotoCapture** is blinking to avoid damaging the card or data stored on the card.

2. Load your document.
3. Press (**Scan**).
4. Press ▲ or ▼ to choose `Scan to Card`, choose one of the options below:
   - To change the quality press **OK** and go to step ❺.
   - To start scanning press **Mono Start** or **Colour Start**.

5 Press ▲ or ▼ to choose the quality, choose one of the options below:
- To change the file type, go to step ❻.
- To start scanning press **Mono Start** or **Colour Start**.

6 Press ▲ or ▼ to choose the file type. Press **Mono Start** or **Colour Start**.

Changing the image quality

1 Press **Menu**.

2 Press ▲ or ▼ to choose `2.PhotoCapture`. Press **OK**.

3 Press ▲ or ▼ to choose `0.Scan to Card`. Press **OK**.

4 Press ▲ or ▼ to choose `1.Quality`. Press **OK**.

5 Press ▲ or ▼ to choose `B/W 200x100 dpi`, `B/W 200 dpi`, `Color 150 dpi`, `Color 300 dpi` or `Color 600 dpi`. Press **OK**.

6 Press **Stop/Exit**.

Changing the monochrome file format

1 Press **Menu**.

2 Press ▲ or ▼ to choose `2.PhotoCapture`. Press **OK**.

3 Press ▲ or ▼ to choose `0.Scan to Card`. Press **OK**.

4 Press ▲ or ▼ to choose `2.B/W File Type`. Press **OK**.

5 Press ▲ or ▼ to choose `TIFF` or `PDF`. Press **OK**.

6 Press **Stop/Exit**.

Changing the colour file format

1 Press **Menu**.

2 Press ▲ or ▼ to choose `2.PhotoCapture`. Press **OK**.

3 Press ▲ or ▼ to choose `0.Scan to Card`. Press **OK**.

4 Press ▲ or ▼ to choose `3.ColorFile Type`. Press **OK**.

5 Press ▲ or ▼ to choose `JPEG` or `PDF`. Press **OK**.

6 Press **Stop/Exit**.

Understanding the Error Messages

Once you are familiar with the types of errors that can occur while you are using the PhotoCapture Center™, you can easily identify and troubleshoot any problems.

- `Media Error`

  This message will appear if you put in a memory card that is either bad or not formatted, or when there is a problem with the media drive. To clear this error, take out the memory card.

- `No File`

  This message will appear if you try to access a memory card in the drive (slot) that does not contain a .JPG file.

- `Out of Memory`

  This message will appear if you are working with images that are too large for the machine's memory.

5 Printing photos from a camera with PictBridge

Your Brother machine supports the PictBridge standard, allowing you to connect to and print photos directly from any PictBridge compatible digital camera.

Before Using PictBridge

PictBridge requirements

To avoid errors, remember the following points:

- The machine and the digital camera must be connected using a suitable USB cable.
- The image file extension must be .JPG (Other image file extensions like .JPEG, .TIF, .GIF and so on will not be recognized).
- PhotoCapture Center operations are not available when using the PictBridge feature.

Using PictBridge

Setting your digital camera

Make sure your camera is in PictBridge mode. If your camera is set to use the printer settings, the following PictBridge settings are available for your PictBridge compatible camera.

Menu Selections	Options
Paper Size	Letter, A4, 10×15cm
Paper Type	Plain Paper, Glossy Paper, Inkjet Paper
Layout	Borderless: On, Borderless: Off
DPOF setting [1]	–
Print Quality	Normal, Fine
Colour Enhancement [2]	On, Off

[1] Please See *DPOF printing* on page 40 for more details.

[2] When the Colour Enhancement setting is selected in your camera. you can set White Balance, Sharpness and Colour Density using the PhotoCapture menu in the machine. (See *Colour Enhancement* on page 34.)

Note

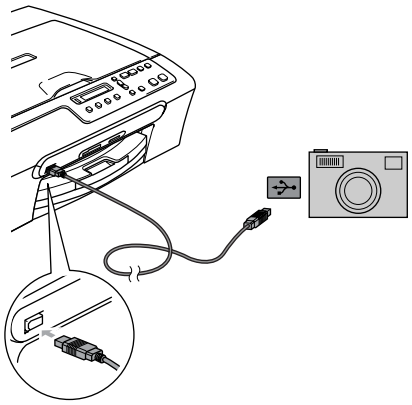
Depending on your camera some of these settings may not be available.

- The names and availability of each setting depends on the specification of your camera.
- The cropping setting is only available from the machine menu. (See *Cropping* on page 35.)

Please refer to the documentation supplied with your camera for more detailed information on changing PictBridge settings.

Printing Images

1. Make sure that your camera is turned off. Connect your camera to the PictBridge port on the machine using the USB cable.



1 PictBridge port

Note

Remove any memory cards from the machine before connecting the digital camera.

2. Turn on the camera.
When the machine has recognized the camera, the LCD shows the following message:

`Camera Connected`

When the machine starts printing a photo, the LCD will show `Printing`.

WARNING

To prevent damage to your machine, do not connect any device other than a PictBridge compatible camera to the PictBridge port.

DPOF printing

DPOF stands for Digital Print Order Format.

Major digital camera manufacturers (Canon Inc., Eastman Kodak Company, Fuji Photo Film Co. Ltd., Matsushita Electric Industrial Co. Ltd. and Sony Corporation) created this standard to make it easier to print images from a digital camera.

If your digital camera supports DPOF printing, you will be able to choose on the digital camera display the images and number of copies you want to print.

Understanding the Error Messages

Once you are familiar with the types of errors that can occur while you are using PictBridge, you can easily identify and troubleshoot any problems.

- `Out of Memory`

  This message will appear if you are working with images that are too large for the machine's memory.

- `Wrong USB device`

  This message will appear if you connect a non-PictBridge compatible or broken device to the PictBridge port. To clear the error, unplug the device from the PictBridge port, then press **On**/**Off** to turn the machine off and then on again.

For more detailed solutions see *Error messages* on page 57.

Section IV

Software

Software features 44

6 Software features

The CD-ROM includes the Software User's Guide for features available when connected to a computer (for example, printing and scanning). The guide has easy to use links that, when clicked, will take you directly to a particular section.

You can find information on these features:

- Printing
- Scanning
- ControlCenter3 (for Windows®)
- ControlCenter2 (for Macintosh®)
- PhotoCapture Center™

How to read the HTML User's Guide

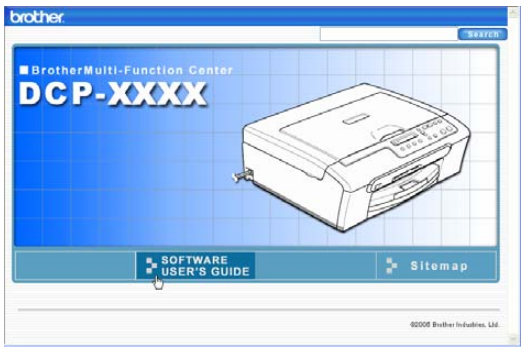
This is a quick reference to use the HTML User's Guide.

(For Windows®)

Note

If you have not installed the software, see *Viewing Documentation* on page 3.

1. From the **Start** menu, point to **Brother**, **DCP-XXXX** (where **XXXX** is your model number) from the programs group, then click **User's Guide**.
2. Click **SOFTWARE USER'S GUIDE** from the top menu.



3. Click the heading you would like to read from the list at the left of the window.

(For Macintosh®)

1. Make sure your Macintosh® is turned on. Insert the Brother CD-ROM labelled Macintosh® into your CD-ROM drive.
2. Double-click the **Documentation** icon.
3. Double-click your language folder, and then double-click the top page file.
4. Click **SOFTWARE USER'S GUIDE** in the top menu, and then click the heading you would like to read from the list at the left of the window.

Section V

Appendixes

Safety and Legal	46
Troubleshooting and Routine Maintenance	54
Menu and Features	70
Specifications	76
Glossary	86

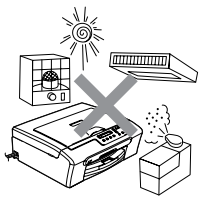
A Safety and Legal

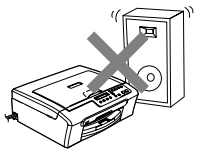
Choosing a location

Put your machine on a flat, stable surface that is free of vibration and shocks, such as a desk. Put the machine near a standard, grounded electrical socket. Choose a location where the temperature remains between 10° and 35° C (50° F and 95° F).

CAUTION

- Avoid placing your machine in a high-traffic area.
- Avoid placing your machine on a carpet.
- DO NOT put the machine near heaters, air conditioners, refrigerators, medical equipment, chemicals or water.
- DO NOT expose the machine to direct sunlight, excessive heat, moisture, or dust.
- DO NOT connect your machine to electrical sockets controlled by wall switches or automatic timers.
- Disruption of power can wipe out information in the machine's memory.
- Do not connect your machine to electrical sockets on the same circuit as large appliances or other equipment that might disrupt the power supply.
- Avoid interference sources, such as speakers or the base units of cordless phones.



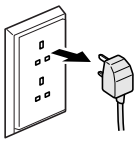


To use the machine safely

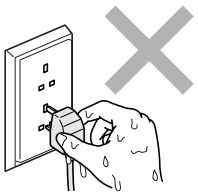
Please keep these instructions for later reference and read them before attempting any maintenance.

WARNING

There are high voltage electrodes inside the machine. Before you clean the inside of the machine, make sure you have unplugged the power cord from the electrical socket. Doing this will prevent an electrical shock.

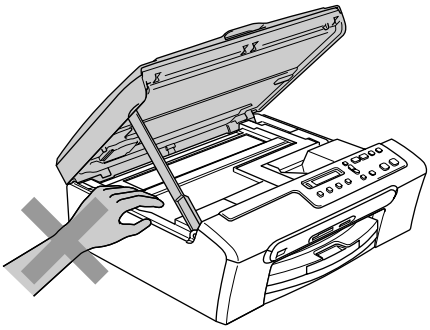


DO NOT handle the plug with wet hands. Doing this might cause an electrical shock.

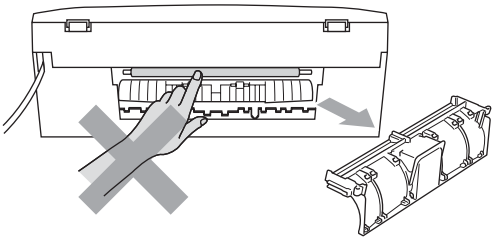


DO NOT pull in the middle of the power cord. Doing this might cause an electrical shock.

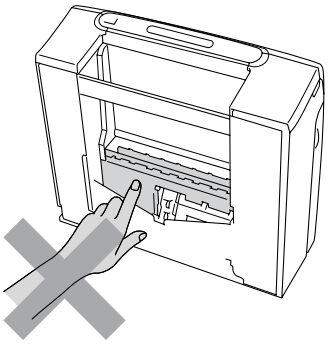
DO NOT put your hands on the edge of the machine under the scanner cover. Doing this may cause injury.



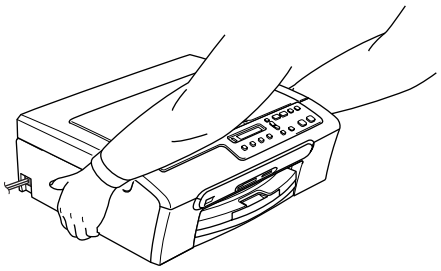
DO NOT touch the paper feed roller. Doing this may cause injury.



DO NOT touch the area shaded in the illustration. Doing this may cause injury.



When moving the machine you must lift it from the base, by placing a hand at each side of the unit as shown in the illustration. Do not carry the machine by holding the scanner cover.



If the machine becomes hot, releases smoke, or generates any strong smells, immediately turn off the power switch and unplug the machine from the electrical socket. Call your Brother dealer or Brother Customer Service.

If metal objects, water or other liquids get inside the machine, immediately turn off the power switch and unplug the machine from the electrical socket. Call your Brother dealer or Brother Customer Service.

WARNING

- This product must be installed near an electrical socket that is easily accessible. In case of an emergency, you must unplug the power cord from the electrical socket to shut off the power completely.
- Always make sure the plug is fully inserted.

Important safety instructions

1 Read all of these instructions.

2 Save them for later reference.

3 Follow all warnings and instructions marked on the product.

4 Unplug this product from the wall socket before cleaning the inside of the machine. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

5 Do not use this product near water.

6 Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

7 Slots and openings in the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heater. This product should never be placed in a built-in installation unless adequate ventilation is provided.

8 This product should be operated from the type of power source indicated on the label. If you are not sure of the type of power available, call your dealer or local power company.

9 Use only the power cord supplied with this machine.

10 This product is equipped with a 3-wire grounded plug, a plug having a third (grounded) pin. This plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, call your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounded plug.

11 Do not allow anything to rest on the power cord. Do not place this product where people can walk on the cord.

12 Do not place anything in front of the machine that will block printing. Do not place anything in the path of printing.

13 Wait until pages have exited the machine before picking them up.

14 Unplug this product from the power socket and refer all servicing to Brother Authorized Service Personnel under the following conditions:

- When the power cord is damaged or frayed.
- If liquid has been spilled into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally when the operating instructions are followed, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- If the product has been dropped or the casing has been damaged.
- If the product exhibits a distinct change in performance, indicating a need for service.

15 To protect your product against power surges, we recommend the use of a power protection device (Surge Protector).

16 To reduce the risk of fire, electric shock and injury to people, note the following:

- Do not use this product near appliances that use water, a swimming pool or in a wet basement.
- Do not use the machine during an electrical storm (there is the remote possibility of an electrical shock) or to report a gas leak in the vicinity of the leak.

IMPORTANT - For your safety

To ensure safe operation, the supplied three-pin plug must be inserted only into a standard three-pin electrical socket that is effectively grounded through the normal household wiring.

The fact that the equipment operates satisfactorily does not imply that the power is grounded and that the installation is completely safe. For your safety, if in any doubt about the effective grounding of the power, consult a qualified electrician.

Wiring information (for UK)

Important

If you need to replace the plug fuse, fit a fuse that is approved by ASTA to BS1362 with the same rating as the original fuse.

Always replace the fuse cover. Never use a plug that does not have a cover.

Warning - This machine must be earthed.

The wires in the mains lead are coloured in line with the following code:

- **Green and Yellow: Earth**
- **Blue: Neutral**
- **Brown: Live**

If in any doubt, call a qualified electrician.

EU Directive 2002/96/EC and EN50419

European Union only

This equipment is marked with the above recycling symbol. It means that at the end of the life of the equipment you must dispose of it separately at an appropriate collection point and not place it in the normal domestic unsorted waste stream. This will benefit the environment for all. (European Union only)

Legal limitations for copying

It is an offence to make reproductions of certain items or documents with the intent to commit fraud. This memorandum is intended to be a guide rather than a complete list.

We suggest you check with relevant legal authorities if in doubt about a particular item or document.

The following are examples of documents which may not be copied:

- Money
- Bonds or other certificates of indebtedness
- Certificates of Deposit
- Armed Forces Service or Draft papers.
- Passports
- Postage Stamps (cancelled or uncancelled)
- Immigration Papers
- Welfare documents
- Cheques or Drafts drawn by Governmental Agencies
- Identification Documents, badges or insignias
- Licences and Certificates of Title to motor vehicles

Copyrighted works cannot be copied. Sections of a copyrighted work can be copied for ‘fair dealing’. Multiple copies would indicate improper use.

Works of art should be considered the equivalent of copyrighted works.

Licenses and Certificates of Title to motor vehicles may not be copied under certain state/provincial laws.

Trademarks

The Brother logo is a registered trademark of Brother Industries, Ltd.

Brother is a registered trademark of Brother Industries, Ltd.

Multi-Function Link is a registered trademark of Brother International Corporation.

© 2006 Brother Industries, Ltd. All rights reserved.

Windows and Microsoft are registered trademarks of Microsoft in the U.S. and other countries.

Macintosh and TrueType are registered trademarks of Apple Computer, Inc.

PaperPort is a registered trademark of ScanSoft, Inc.

Presto! PageManager is a registered trademark of NewSoft Technology Corporation.

Microdrive is a trademark of International Business Machine Corporation.

CompactFlash is a registered trademark of SanDisk Corporation.

Memory Stick is a registered trademark of Sony Corporation.

SecureDigital is a trademark of Matsushita Electric Industrial Co. Ltd., SanDisk Corporation and Toshiba Corporation.

SanDisk is a licensee of the SD and miniSD trademarks.

MultiMediaCard is a trademark of Infineon Technologies and licensed to the MultiMediaCard Association.

xD-Picture Card is a trademark of Fujifilm Co. Ltd., Toshiba Corporation and Olympus Optical Co. Ltd.

Memory Stick Pro, Memory Stick Pro Duo, Memory Stick Duo and MagicGate are trademarks of Sony Corporation.

PictBride is a trademark.

PaperPort is a registered trademark of ScanSoft, Inc.

Each company whose software title is mentioned in this manual has a Software License Agreement specific to its proprietary programs.

All other brand and product names mentioned in this User's Guide and the Software User's Guide are registered trademarks of their respective companies.

B Troubleshooting and Routine Maintenance

Troubleshooting

If you think there is a problem with your machine, check the chart below and follow the troubleshooting tips.

Most problems can be easily resolved by yourself. If you need additional help, the Brother Solutions Center offers latest FAQs and troubleshooting tips. Visit us at http://solutions.brother.com.

If you are having difficulty with your machine

Printing

Difficulty	Suggestions
No printout	Check the interface cable connection on both the machine and your computer.
	One or more ink cartridges are empty. (See *Replacing the ink cartridges* on page 61.)
	Check to see if the LCD is showing an error message. (See *Error messages* on page 57.)
	Check that the correct printer driver has been installed and chosen.
	Make sure the machine is online. Click **Start** and then **Printers and Faxes**. Right-click and choose **Brother DCP-XXXX** (where XXXX is your model name), and make sure that 'Use Printer Offline' is unchecked.
Poor print quality	Check the print quality. (See *Checking the print quality* on page 66.)
	Make sure that the Printer Driver or Paper Type setting in the menu matches the type of paper you are using. (See *Printing* for Windows® or *Printing and Faxing* for Macintosh® in the Software User's Guide on the CD-ROM.)
	Make sure that your ink cartridges are fresh. The following may cause ink to clog: ■ The expiration date written on the cartridge package has passed. (Cartridges stay usable for up to two years if kept in their original packaging.) ■ The ink cartridge was in your machine over six months. ■ The ink cartridge may not have been stored properly before use.
	Try using the recommended types of paper. (See *Acceptable paper and other media* on page 10.)
	The recommended environment for your machine is between 20° C to 33° C (68° F to 91° F).
White horizontal lines appear in text or graphics.	Clean the print head. (See *Cleaning the print head* on page 65.)
	Try using the recommended types of paper. (See *Acceptable paper and other media* on page 10.)
The machine prints blank pages.	Clean the print head. (See *Cleaning the print head* on page 65.)
Characters and lines are stacked.	Check the printing alignment. (See *Checking the printing alignment* on page 67.)
Printed text or images are skewed.	Make sure the paper is loaded properly in the paper tray and the paper side guide is adjusted correctly. (See *Loading paper and other media* on page 14.)
	Make sure the Jam Clear cover is set properly.

Printing (Continued)

Difficulty	Suggestions
Smudged stain at the top center of the printed page.	Make sure the paper is not too thick or curled. (See *Acceptable paper and other media* on page 10.)
Printing appears dirty or ink seems to run.	Make sure you are using the recommended types of paper. (See *Acceptable paper and other media* on page 10.) Don't handle the paper until the ink is dry.
Stains appear on the reverse side or at the bottom of the page.	Make sure the printer platen is not dirty with ink. (See *Cleaning the machine printer platen* on page 64.)
	Make sure you are using the paper support flap. (See *Loading paper and other media* on page 14.)
The machine prints dense lines on the page.	Check **Reverse Order** in the **Basic** tab of the printer driver.
The printouts are wrinkled.	In the printer driver **Basic** tab, click **Settings**, and uncheck **Bi-Directional Printing**.
Cannot perform '2 in 1 or 4 in 1' printing.	Check that the paper size setting in the application and in the printer driver are the same.
Print speed is too slow.	Try changing the printer driver setting. The highest resolution needs longer data processing, sending and printing time. Try the other quality settings in the printer driver **Basic** tab. Also, click the **Settings** tab, and make sure you uncheck **Colour Enhancement**.
	Set the borderless feature off. Borderless printing is slower than normal printing. (See *Printing* for Windows® or *Printing and Faxing* for Macintosh® in the Software User's Guide on the CD-ROM.)
Colour Enhancement is not working properly.	If the image data is not full colour in your application (such as 256 colour), Colour Enhancement will not work. Use at least 24 bit colour data with the Colour Enhancement feature.
Machine feeds multiple pages	Make sure the paper is loaded properly in the paper tray. (See *Loading paper and other media* on page 14.)
	Check that more than two types of paper are not loaded in the paper tray at any one time.
Printed pages are not stacked neatly.	Make sure you are using the paper support flap. (See *Loading paper and other media* on page 14.)
Machine does not print from Paint Brush.	Try setting the Display setting to '256 colours.'
Machine does not print from Adobe Illustrator.	Try to reduce the print resolution. (See *Printing* for Windows® or *Printing and Faxing* for Macintosh® in the Software User's Guide on the CD-ROM.)
The machine cannot print full pages of a document. `Out of memory` message occurs.	Reduce the printing resolution. (See *Printing* for Windows® or *Printing and Faxing* for Macintosh® in the Software User's Guide on the CD-ROM.) Reduce the complexity of your document and try again. Reduce the graphic quality or the number of font sizes within your application software.

Copying Difficulties

Difficulty	Suggestions
Vertical streaks appear on copies	If you see vertical streaks on copies, clean the scanner. (See *Cleaning the scanner* on page 64.)

Scanning Difficulties

Difficulty	Suggestions
TWAIN/WIA errors appear while scanning.	Make sure the Brother TWAIN/WIA driver is chosen as the primary source. In PaperPort® SE with OCR, click **File**, **Scan** and choose the Brother TWAIN/WIA driver.

Software Difficulties

Difficulty	Suggestions
Cannot install software or print	Run the **Repair MFL-Pro Suite** program on the CD-ROM. This program will repair and reinstall the software.
'Device Busy'	Make sure the machine is not showing an error message on the LCD.

PhotoCapture Center™ Difficulties

Difficulty	Suggestions
Removable Disk does not work properly.	1 Have you installed the Windows® 2000 update? If not, do the following: 1) Unplug the USB cable. 2) Install the Windows® 2000 update, and see the Quick Setup Guide. After the installation the PC will be automatically restarted. 3) Wait about 1 minute after you restart the PC, and then connect the USB cable. 2 Take out the media card and put it back in again. 3 If you have tried 'Eject' from within Windows®, take out the media card before you continue. 4 If an error message appears when you try to eject the media card, it means the card is being accessed. Wait a while and then try again. 5 If all of the above do not work, turn off your PC and machine, and then turn them on again. (You will have to unplug the power cord of the machine to turn it off.)
Cannot access Removable Disk from Desktop icon.	Make sure you have put the media card into the media slot.

Error messages

As with any sophisticated office product, errors may occur. If this happens, your machine identifies the error and shows an error message. The most common error messages are shown below.

You can correct most errors by yourself. If you need more help, the Brother Solutions Center offers latest FAQs and troubleshooting tips.

Visit us at http://solutions.brother.com.

Error Message	Cause	Action
Change Unable XX	The machine has a mechanical problem. **—OR—** A foreign objects such as a clip or ripped paper is in the machine.	Open the scanner cover and remove any foreign objects inside the machine. If the error message continues, disconnect the machine from the power source for several minutes then reconnect it.
Clean Unable XX	The machine has a mechanical problem. **—OR—** A foreign objects such as a clip or ripped paper is in the machine.	Open the scanner cover and remove any foreign objects inside the machine. If the error message continues, disconnect the machine from the power source for several minutes then reconnect it.
Cover is Open	The scanner cover is not closed completely.	Lift the scanner cover and then close it again.
Data Remaining	Print data is left in the machine's memory.	Re-start printing from your computer.
	Print data is left in the machine's memory. The USB cable was unplugged while the computer was sending the data to the machine.	Press **Stop/Exit**. The machine will cancel the job and clear it from the memory. Try to print again.
High Temperature	The print head is too warm.	Allow the machine to cool down.
Init. Unable XX	The machine has a mechanical problem. **—OR—** A foreign objects such as a clip or ripped paper is in the machine.	Open the scanner cover and remove any foreign objects inside the machine. If the error message continues, disconnect the machine from the power source for several minutes then reconnect it.
Ink Empty	One or more of the ink cartridges is empty. The machine will stop all print operations.	Replace the ink cartridges. (See *Replacing the ink cartridges* on page 61.)
Low Temperature	The print head is too cold.	Allow the machine to warm up.
Media Error	The media card is either corrupted, improperly formatted, or there is a problem with the media card.	Put the card firmly into the slot again to make sure it is in the correct position. If the error remains, check the media drive by putting in another media card that you know is working.
Near Empty	One or more of the ink cartridges are running out of ink.	Order a new ink cartridge.

Error Message	Cause	Action
No Cartridge	An ink cartridge is not installed properly.	Take out the ink cartridge and put it in again seating it properly. (See *Replacing the ink cartridges* on page 61.)
No File	The media card in the media drive does not contain a .JPG file.	Put the correct media card into the slot again.
No Paper Fed	The machine is out of paper or paper is not properly loaded in the paper tray.	Do one of the following: ■ Refill the paper in the paper tray, and then press **Mono Start** or **Colour Start**. ■ Remove the paper and load it again and then press **Mono Start** or **Colour Start**.
	The paper is jammed in the machine.	See *Printer jam or paper jam* on page 59.
Out of Memory	The machine's memory is full.	**Copy operation in progress** Press **Stop/Exit** and wait until the other operations in progress finish and then try again. **Printing operation in progress** Reduce print resolution. (For details, see *Printing* for Windows® or *Printing and Faxing* for Macintosh® in the Software User's Guide on the CD-ROM.)
Paper Jam	Paper is jammed in the machine.	See *Printer jam or paper jam* on page 59.
Print Unable XX	The machine has a mechanical problem. **—OR—** A foreign objects such as a clip or ripped paper is in the machine.	Open the scanner cover and remove any foreign objects inside the machine. If the error message continues, disconnect the machine from the power source for several minutes then reconnect it.
Scan Unable XX	The machine has a mechanical problem. **—OR—** A foreign objects such as a clip or ripped paper is in the machine.	Open the scanner cover and remove any foreign objects inside the machine. If the error message continues, disconnect the machine from the power source for several minutes then reconnect it.
Wrong Paper Size	Paper is not the correct size.	Load the correct size of paper (Letter, Legal or A4), and then press **Mono Start** or **Colour Start**.
Wrong USB device	A non-PictBridge compatible or broken device has been connected to the PictBridge port.	Unplug the device from the PictBridge port, then press **On/Off** to turn the machine off and then on again.

Changing LCD language

You can change the LCD language.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `0.Initial Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `0.Local Language`.
   Press **OK**.
4. Press ▲ or ▼ to choose your language.
   Press **OK**.
5. Press **Stop/Exit**.

Improving the LCD viewing

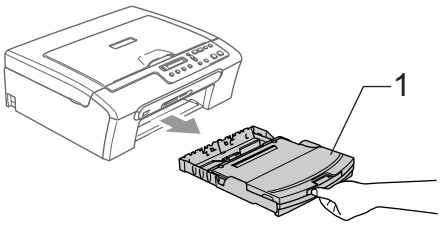
You can adjust the LCD contrast for a sharper and more vivid display. If you are having difficulty reading the LCD, try changing the contrast setting.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `0.Initial Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `2.LCD Contrast`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Light` or `Dark`.
   Press **OK**.
5. Press **Stop/Exit**.

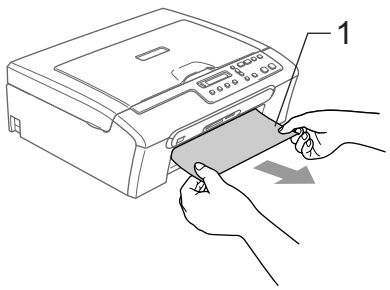
Printer jam or paper jam

Take out the jammed paper depending on where it is jammed in the machine. Open and close the scanner cover to clear the error.

1. Pull the paper tray (1) out of the machine.

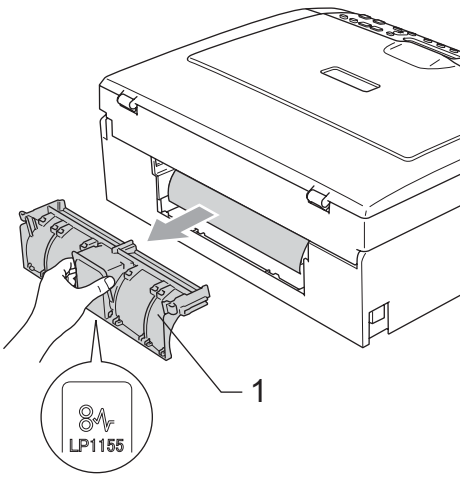


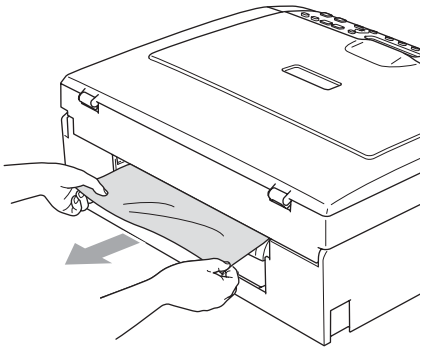
2. Pull out the jammed paper (1).



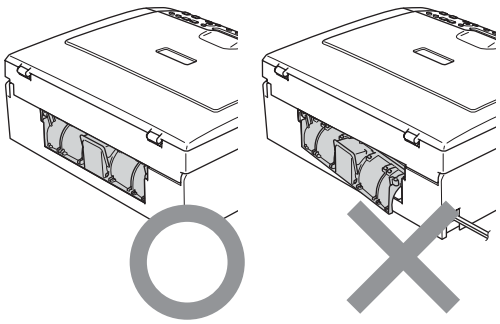
- If you cannot remove the jammed paper from the front side, or the error message still appears on the LCD after you remove the jammed paper, please go to the next step.

3. Remove the Jam Clear Cover (1). Pull the jammed paper out of the machine.

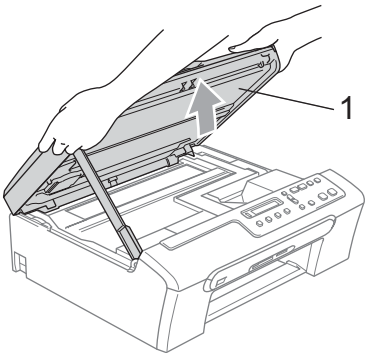




4 Put the Jam Clear Cover back on.
Make sure the Cover is set properly.



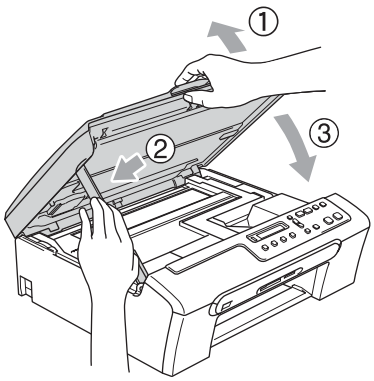
5 Lift the scanner cover (1) from the front of the machine until it locks securely into the open position.
Make sure that there is no jammed paper left inside the machine.



Note

If the paper is jammed under the print head, unplug the machine from the power source, then move the print head to take out the paper.

6 Lift the scanner cover to release the lock. Gently push the scanner cover support down and close the scanner cover.



Routine maintenance

Replacing the ink cartridges

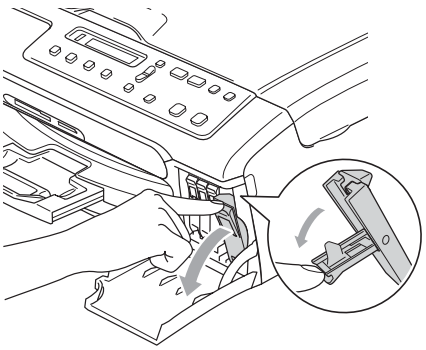
Your machine is equipped with an ink dot counter. The ink dot counter automatically monitors the level of ink in each of the 4 cartridges. When the machine detects an ink cartridge is running out of ink, the machine will tell you with a message on the LCD.

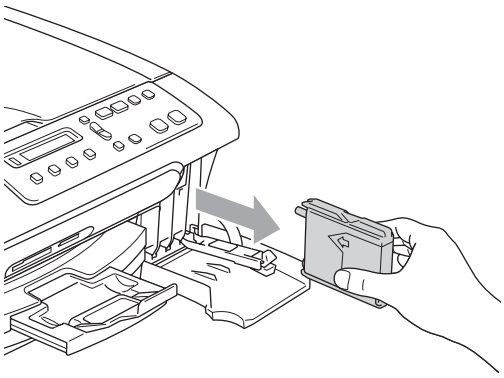
The LCD will tell you which ink cartridge is low or needs replacing. Be sure to follow the LCD prompts to replace the ink cartridges in the correct order.

Even though the machine tells you that an ink cartridge is empty, there will be a small amount of ink left in the ink cartridge. It is necessary to keep some ink in the ink cartridge to prevent air from drying out and damaging the print head assembly.

1. Open the ink cartridge cover.
   If one or more ink cartridges are empty, for example Black, the LCD shows `Ink Empty Black` and `Replace Ink`.

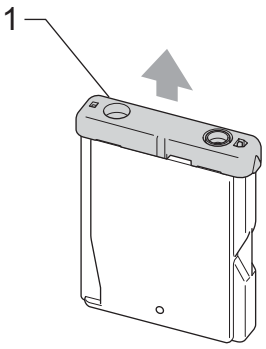
2. Pull the lock release lever and take out the ink cartridge for the colour shown on the LCD.





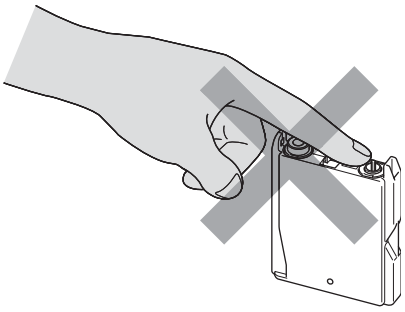
3. Open the new ink cartridge bag for the colour shown on the LCD, and then take out the ink cartridge.

4. Take out the protective yellow cap (1).



Improper Setup

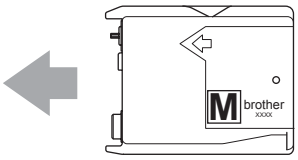
DO NOT touch the area shown in the illustration below.



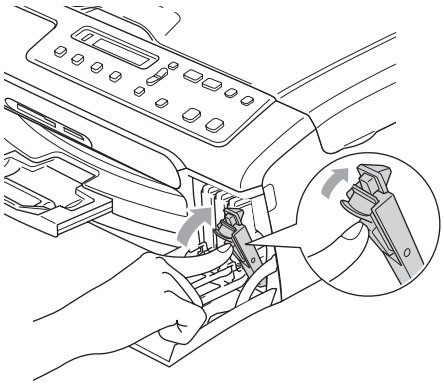
Note

If the protective yellow caps come off when you open the bag, the cartridge will not be damaged.

5 Each colour has its own correct position. Insert the ink cartridge in the direction of the arrow on the label.



6 Lift each lock release lever and push it until it clicks, and then close the ink cartridge cover.



7 If you replaced an ink cartridge, the LCD may ask you to verify that it was a brand new one. (For example, `Did You Change Blck?`) For each new cartridge you installed, press ▲ (`Yes`) to automatically reset the ink dot counter for that colour. If the ink cartridge you installed is not a brand new one, be sure to press ▼ (`No`). If you wait until the LCD shows `Near Empty` and `Ink Empty`, the machine will automatically reset the ink dot counter.

Note

If the LCD shows `Install` after you install the ink cartridges, check that the ink cartridges are installed properly.

WARNING

If ink gets in your eyes, wash them out with water at once and call a doctor if you are concerned.

CAUTION

DO NOT take out ink cartridges if you do not need to replace them. If you do so, it may reduce the ink quantity and the machine will not know the quantity of ink left in the cartridge.

DO NOT touch the cartridge insertion slots. If you do so, the ink may stain your skin.

If ink stains your skin or clothing, wash with soap or detergent at once.

If you mix the colours by installing an ink cartridge in the wrong position, clean the print head several times after correcting the cartridge installation.

Once you open an ink cartridge, install it in the machine and use it up within six months of installation. Use unopened ink cartridges by the expiration date written on the cartridge package.

DO NOT dismantle or tamper with the ink cartridge, this can cause the ink to leak out of the cartridge.

Brother multifunction machines are designed to work with ink of a particular specification and will work to a level of optimum performance when used with genuine Brother Branded ink cartridges. Brother cannot guarantee this optimum performance if ink or ink cartridges of other specifications are used. Brother does not therefore recommend the use of cartridges other than genuine Brother Branded cartridges or the refilling of empty cartridges with this machine or the refilling of empty cartridges with ink from other sources. If damage is caused to the print head or other parts of this machine as a result of using incompatible products with this machine, any repairs required as a result may not be covered by the warranty.

Cleaning the outside of the machine

CAUTION

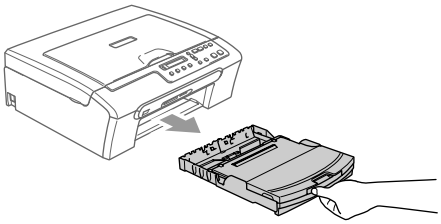
Use neutral detergents. Cleaning with volatile liquids such as thinner or benzine will damage the outside surface of the machine.

DO NOT use cleaning materials that contain ammonia.

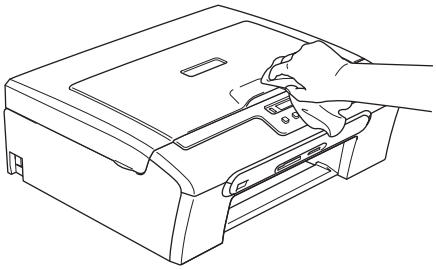
DO NOT use isopropyl alcohol to remove dirt from the control panel. It may crack the panel.

Clean the outside of the machine as follows:

1. Pull the paper tray completely out of the machine.

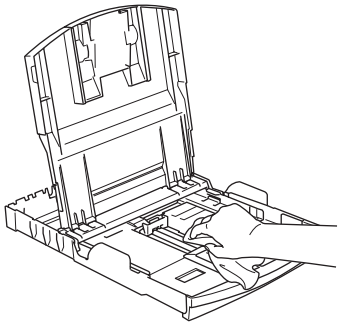


2. Wipe the outside of the machine with a soft cloth to remove dust.



3. Remove anything that is stuck inside the paper tray.

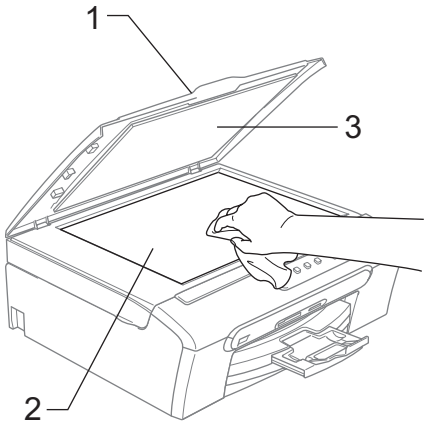
4. Lift the output paper tray cover and wipe the inside and outside of the paper tray with a soft cloth to remove dust.



5. Close the output paper tray cover and put the paper tray firmly back in the machine.

Cleaning the scanner

1. Lift the document cover (1). Clean the scanner glass (2) and white plastic (3) with isopropyl alcohol on a soft lint-free cloth.

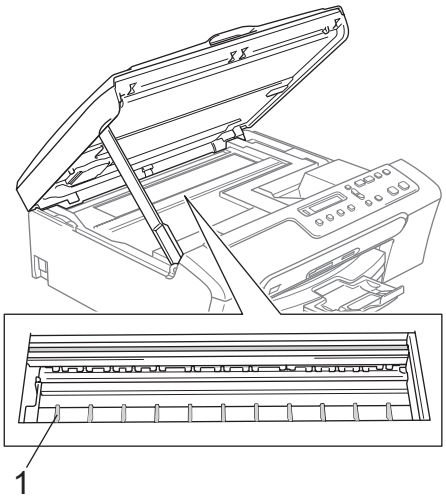


Cleaning the machine printer platen

WARNING

Unplug the machine from the AC power outlet before cleaning the printer platen (1).

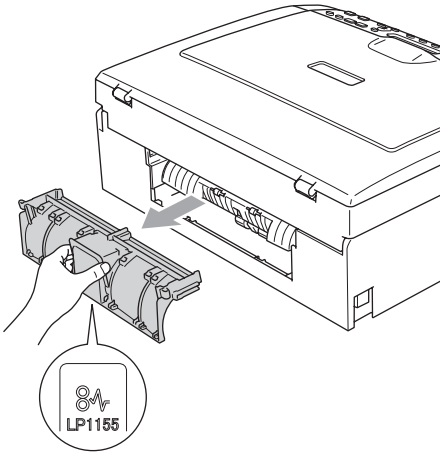
If ink is scattered on or around the printer platen, wipe it off with a soft, dry, lint-free cloth.



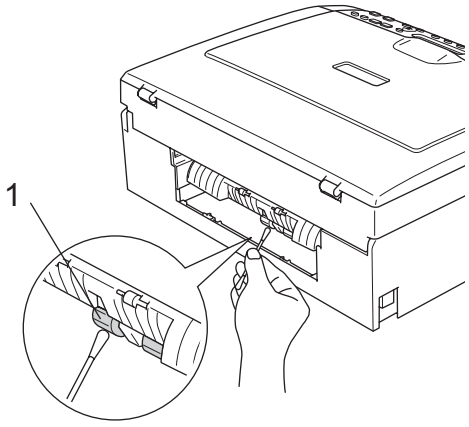
1. Clean the machine printer platen (1).

Cleaning the Paper Pick-up Roller

1. Pull the paper tray completely out of the machine.
2. Unplug the machine from the electrical socket and remove the Jam Clear Cover.



3. Clean the Paper Pick-up Roller (1) with isopropyl alcohol on a cotton swab.



4. Put the Jam Clear Cover back on. Make sure the Cover is set properly.
5. Re-connect the power cord.
6. Put the paper tray firmly back in the machine.

Cleaning the print head

To ensure the good print quality, the machine will regularly clean the print head. You can start the cleaning process manually if needed.

Clean the print head and ink cartridges if you get a horizontal line in the text or graphics on your printed pages. You can clean Black only, three colours at a time (Cyan/Yellow/Magenta), or all four colours at once.

Cleaning the print head consumes ink. Cleaning too often uses ink unnecessarily.

CAUTION

DO NOT touch the print head. Touching the print head may cause permanent damage and may void the print head's warranty.

1. Press **Ink Management**.
2. Press ▲ or ▼ to choose `Cleaning`.
   Press **OK**.
3. Press ▲ or ▼ to choose `Black`, `Color` or `All`.
   Press **OK**.
   The machine cleans the print head. When cleaning is finished, the machine will go back to standby mode automatically.

Note

If you clean the print head at least five times and the print has not improved, call your Brother dealer.

Checking the print quality

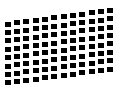
If faded or streaked colours and text appear on your output, some of the nozzles may be clogged. You can check this by printing the Print Quality Check Sheet and looking at the nozzle check pattern.

1. Press **Ink Management**.
2. Press ▲ or ▼ to choose `Test Print`.
   Press **OK**.
3. Press ▲ or ▼ to choose `Print Quality`.
   Press **OK**.
4. Press **Colour Start**.
   The machine begins printing the Print Quality Check Sheet.
5. Check the quality of the four colour blocks on the sheet.

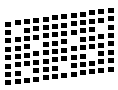
   `Is Quality OK?`

   `▲Yes ▼No`
6. Do one of the following:
   - If all lines are clear and visible, press ▲ to choose `Yes`, and go to step ❿.
   - If you can see missing short lines as shown below, press ▼ to choose `No`.

OK



Poor



7. The LCD asks you if the print quality is OK for black and three colours.

   `Black OK?`

   `▲Yes ▼No`

   Press ▲ (`Yes`) or ▼ (`No`).
8. The LCD asks you if you want to start cleaning.

   `Start Cleaning?`

   `▲Yes ▼No`

   Press ▲ (`Yes`).
   The machine starts cleaning the print head.
9. After cleaning is finished, press **Colour Start**.
   The machine starts printing the Print Quality Check Sheet again and then return to step ❺.
10. Press **Stop/Exit**.
    If you repeat this procedure at least five times and the print quality is still poor, replace the ink cartridge for the clogged colour.
    After replacing the ink cartridge, check the print quality. If the problem still exists, repeat the cleaning and test print procedures at least five times for the new ink cartridge. If ink is still missing, call your Brother dealer.

CAUTION

DO NOT touch the print head. Touching the print head may cause permanent damage and may void the print head's warranty.

Note

When a print head nozzle is clogged the printed sample looks like this.

After the print head nozzle is cleaned, the horizontal lines are gone.

Checking the printing alignment

You may need to adjust the printing alignment. If after transporting the machine your printed text becomes blurred or images become faded then adjustments may need to be made.

1. Press **Ink Management**.
2. Press ▲ or ▼ to choose `Test Print`. Press **OK**.
3. Press ▲ or ▼ to choose `Alignment`. Press **OK**.
4. Press **Mono Start** or **Colour Start**. The machine starts printing the Alignment Check Sheet.

   `Is Alignment OK?`

   `▲Yes ▼No`
5. Check the 600 dpi and 1200 dpi test prints to see if number 5 most closely matches number 0.
   - If the number 5 sample of both the 600 dpi and 1200 dpi are the best matches, press ▲ (`Yes`) to finish Alignment Check, and go to step ❽.
   - If another test print number is a better match for either 600 dpi or 1200 dpi, press ▼ (`No`) to choose it.
6. For 600 dpi, press ▲ or ▼ to select the number of the test print that most closely matches the number 0 sample (1-8).

   `600dpi Adjust`

   `Select Best #5`

   Press **OK**.
7. For 1200 dpi, press ▲ or ▼ to select the number of the test print that most closely matches the number 0 sample (1-8).

   `1200dpi Adjust`

   `Select Best #5`

   Press **OK**.
8. Press **Stop/Exit**.

Checking the ink volume

You can check the ink that is left in the cartridge.

1. Press **Ink Management**.
2. Press ▲ or ▼ to select `Ink Volume`. Press **OK**.
   The LCD shows the ink volume.

   `Bk:-□□□□■□□+`
3. Press ▲ or ▼ to choose the colour you want to check.
4. Press **Stop/Exit**.

Note

You can check the ink volume from your computer. (See *Printing* for Windows® or *Printing and Faxing* for Macintosh® in the Software User's Guide on the CD-ROM.)

Machine Information

Checking the serial number

You can see the machine's serial number on the LCD.

1. Press **Menu**.
2. Press ▲ or ▼ to select `4.Machine Info..`
   Press **OK**.
3. Press ▲ or ▼ to select `1.Serial No..`
   Press **OK**.

   XXXXXXX
4. Press **Stop/Exit**.

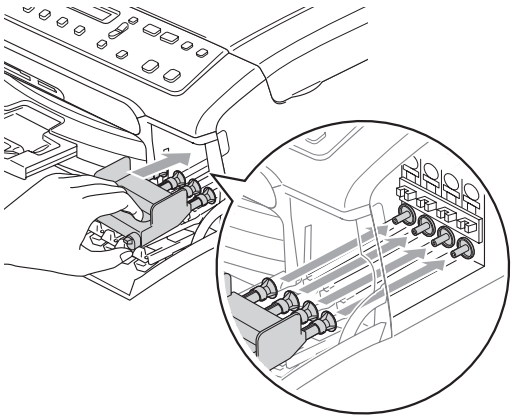
Packing and shipping the machine

When you transport the machine, use the packing materials that came with your machine. If you do not pack the machine properly, you could void your warranty.

CAUTION

It is important to allow the machine to 'park' the print head after a print job. Listen carefully to the machine before unplugging it to make sure that all mechanical noise has stopped. Not allowing the machine to finish this parking process may lead to print problems and possible damage to the print head.

1. Open the ink cartridge cover.
2. Pull the lock release levers down and take out all the ink cartridges. (See *Replacing the ink cartridges* on page 61.)
3. Install the yellow protective part, lift each lock release lever and push it until it clicks, and then close the ink cartridge cover.



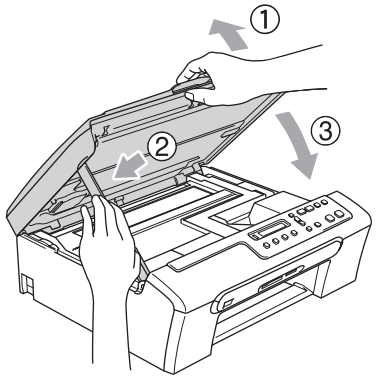
CAUTION

If you are not able to find the yellow protective parts, DO NOT remove the ink cartridges before shipping. It is essential that the machine be shipped with either the yellow protective parts or the ink cartridges in position. Shipping without them will cause damage to your machine and may void your warranty.

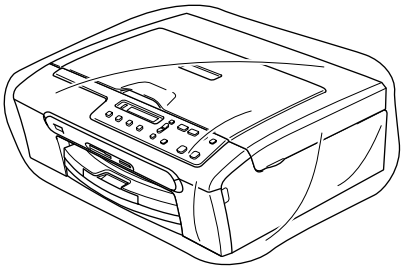
4. Unplug the machine from the electrical socket.

5. Using both hands, use the plastic tabs on both sides of the machine to lift the scanner cover until it locks securely into the open position. Then unplug the interface cable from the machine, if it is connected.

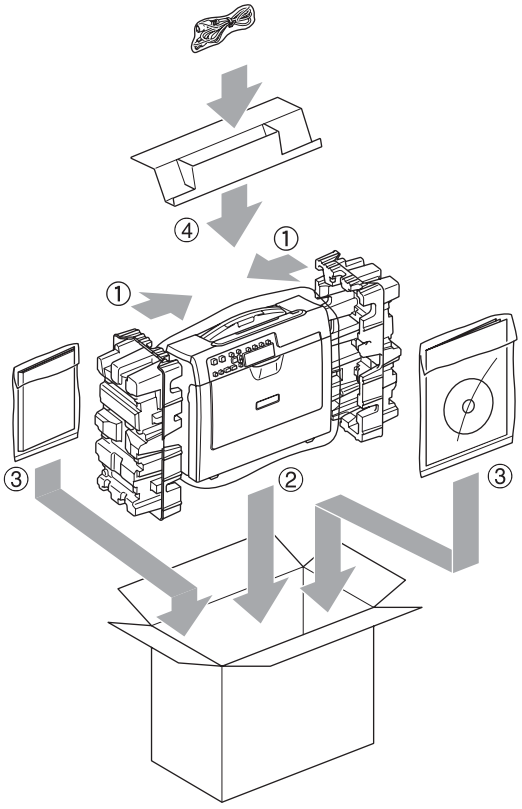
6. Lift the scanner cover (1) to release the lock. Gently push the scanner cover support down (2) and close the scanner cover (3).



7. Wrap the machine in the bag and put it in the original carton with the original packing material.



8. Pack the printed materials in the original carton as shown below. Do not pack the used ink cartridges in the carton.



9. Close the carton and tape it shut.

C Menu and Features

On-screen programming

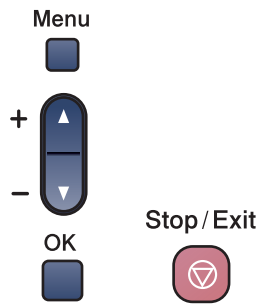
Your machine is designed to be easy to use with LCD on-screen programming using the menu keys. User-friendly programming helps you take full advantage of all the menu selections your machine has to offer.

Since your programming is done on the LCD, we have created step-by-step on-screen instructions to help you program your machine. All you need to do is follow the instructions as they guide you through the menu selections and programming options.

Menu table

You can program your machine by using the menu table that begins on page 72. These pages list the menu selections and options.

Menu keys



Menu	Access the menu.
+ −	Scroll through the current menu level.
OK	Go to the next menu level. Accept an option.
Stop / Exit	Exit the menu.

To access the menu mode:

1. Press **Menu**.
2. Choose an option.
   You can scroll more quickly through each menu level by pressing ▲ or ▼ for the direction you want.

   ```
   1.Copy
   ```

   ```
   2.PhotoCapture
   ```

   ```
   3.Print Reports
   ```

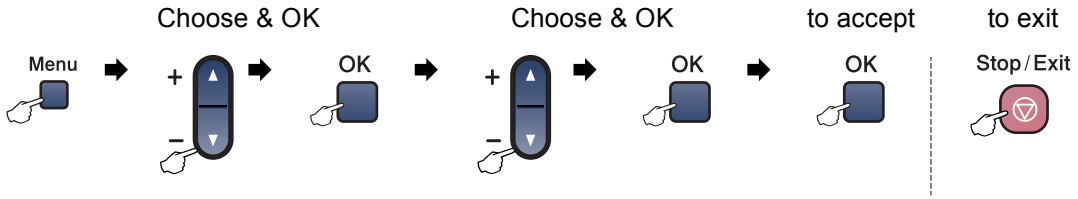
   ```
   4.Machine Info.
   ```

   ```
   0.Initial Setup
   ```

3. Press **OK** when that option appears on the LCD.
   The LCD will then show the next menu level.
4. Press ▲ or ▼ to scroll to your next menu selection.
5. Press **OK**.
   When you finish setting an option, the LCD shows `Accepted`.

Menu Table

The menu table will help you understand the menu selections and options that are found in the machine's programs. The factory settings are shown in Bold with an asterisk.



Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
1.Copy	1.Paper Type	—	**Plain Paper***	Sets the type of paper in the paper tray.	24
			Inkjet Paper		
			Brother Photo		
			Other Photo		
			Transparency		
	2.Paper Size	—	Letter	Sets the size of the paper in the paper tray.	25
			Legal		
			A4*		
			A5		
			10x15cm		
	3.Quality	—	Fast	Chooses the copy resolution for your type of document.	21
			Normal*		
			Best		
	4.Brightness	—	-□□□□■+	Adjusts the brightness for copies.	23
			-□□□■□+		
			-□□■□□+*		
			-□■□□□+		
			-■□□□□+		
	5.Contrast	—	-□□□□■+	Adjusts the contrast for copies.	24
			-□□□■□+		
			-□□■□□+*		
			-□■□□□+		
			-■□□□□+		
The factory settings are shown in Bold with an asterisk.					

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
1.Copy (Continued)	6.Color Adjust	1.Red	R:-□□□□■+ R:-□□□■□+ **R:-□□■□□+*** R:-□■□□□+ R:-■□□□□+	Adjusts the amount of Red in copies.	24
		2.Green	G:-□□□□■+ G:-□□□■□+ **G:-□□■□□+*** G:-□■□□□+ G:-■□□□□+	Adjusts the amount of Green in copies.	
		3.Blue	B:-□□□□■+ B:-□□□■□+ **B:-□□■□□+*** B:-□■□□□+ B:-■□□□□+	Adjusts the amount of Blue in copies.	
2.Photo Capture	1.Print Quality	—	Normal **Photo***	Selects the print quality.	33
	2.Paper Type	—	Plain Paper Inkjet Paper Brother Photo **Other Photo***	Selects the paper type.	33
	3.Paper Size	—	Letter A4 **10x15cm*** 13x18cm	Selects the paper size.	34
The factory settings are shown in Bold with an asterisk.					

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
2.Photo Capture (Continued)	**4.Print Size**	—	10×8cm 13×9cm 15×10cm 18×13cm 20×15cm **Max. Size***	Selects the print size. (Appears when A4 or Letter is selected in the Paper Size menu.)	34
	5.Brightness	—	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the brightness.	34
	6.Contrast	—	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the contrast.	34
	7.Color Enhance	Enhance:On **Enhance:Off***	1.White Balance -□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the hue of the white areas.	34
			2.Sharpness -□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Enhances the detail of the image.	
			3.Color Density -□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the total amount of colour in the image.	

The factory settings are shown in Bold with an asterisk.

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
2.Photo Capture (Continued)	8.Cropping	—	**On*** Off	Crops the image around the margin to fit the paper size or print size. Turn this feature off if you want to print whole images or prevent unwanted cropping.	35
	9.Borderless	—	**On*** Off	Expands the printable area to fit the edges of the paper.	36
	0.Scan to Card	1.Quality	B/W 200×100 dpi B/W 200 dpi **Color 150 dpi*** Color 300 dpi Color 600 dpi	Selects the Scan resolution for your type of document.	See *Software User's Guide on the CD-ROM*.
		2.B/W File Type	**TIFF*** PDF	Selects the default file format for black and white scanning.	
		3.ColorFile Type	**PDF*** JPEG	Selects the default file format for colour scanning.	
3.Print Reports	1.Help List	—	—	You can print these lists and reports.	8
	2.User Settings	—	—		
4.Machine Info.	1.Serial No.	—	—	Lets you check the serial number of your machine.	68
0.Initial Setup	1.Date/Time	—	—	Puts the date and time in your machine.	See *Quick Setup Guide*
	2.LCD Contrast	—	Light **Dark***	Adjusts the contrast of the LCD.	59
	0.Local Language (For UK and Ireland)	—	**English*** French German Dutch Italian	Allows you to change the LCD language for your country.	59

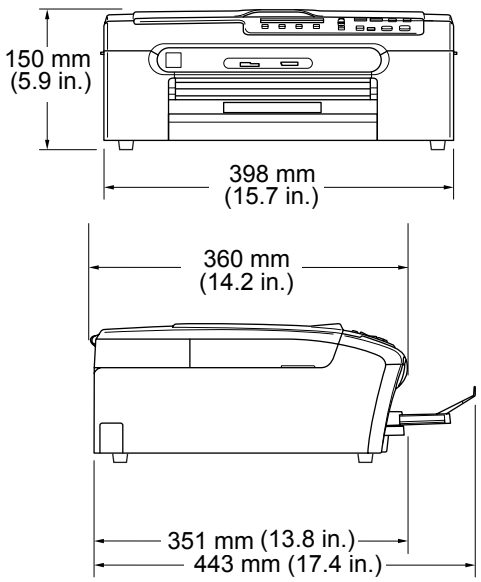
The factory settings are shown in Bold with an asterisk.

D Specifications

General

Memory Capacity	16 MB	
Paper Tray	100 Sheets [80 g/m^2 (20 lb)]	
Printer Type	Ink Jet	
Print Method	Black:	Piezo with 94 × 1 nozzles
	Colour:	Piezo with 94 × 3 nozzles
LCD (Liquid Crystal Display)	16 characters × 1line	
Power Source	AC 220 to 240V 50/60Hz	
Power Consumption	Power Save Mode:	Average 4 W
	Standby:	Average 6 W
	Operating:	Average 20 W

Dimensions



Weight	7.1 kg (15.6 lb)	
Noise	Operating:	50db or less [1]
Temperature	Operating:	10 to 35° C (50° F to 95° F)
	Best Print Quality:	20 to 33° C (68° F to 91° F)
Humidity	Operating:	20 to 80% (without condensation)
	Best Print Quality:	20 to 80% (without condensation)

[1] This depends on printing conditions.

Print media

Paper Input	**Paper Tray** ■ Paper type: Plain paper, inkjet paper (coated paper), glossy paper [2], transparencies [1] [2] and envelopes ■ Paper size: Letter, Legal, Executive, A4, A5, A6, JIS B5, envelopes (commercial No.10, DL, C5, Monarch, JE4), Photo card, Index card and Post card [3]. For more details, see *Paper weight, thickness and capacity* on page 13. ■ Maximum paper tray capacity: Approx. 100 sheets of 80 g/m^2 (20 lb) plain paper
Paper Output	Up to 50 sheets of A4 plain paper (Face up print delivery to the output paper tray) [2]

1 Use only transparencies recommended for inkjet printing.

2 For glossy paper or transparencies, we recommend removing printed pages from the output paper tray immediately after they exit the machine to avoid smudging.

3 See *Paper type and size for each operation* on page 12.

Copy

Colour/Monochrome	Yes/Yes
Document Size	Scanner Glass Width: Max. 215.9 mm (8.5 in.) Scanner Glass Height: Max. 297 mm (11.7 in.)
Copy Speed	Monochrome: Up to 18 pages/minute (A4 paper) [1] Colour: Up to 16 pages/minute (A4 paper) [1]
Multiple Copies	Stacks up to 99 pages
Enlarge/Reduce	25% to 400% (in increments of 1%)
Resolution	(Monochrome) ■ Scans up to 600×1200 dpi ■ Prints up to 1200×1200 dpi (Colour) ■ Scans up to 600×1200 dpi ■ Prints up to 600×1200 dpi

[1] Based on Brother standard pattern. (Fast mode/Stack Copy) Copy speeds vary with the complexity of the document.

PhotoCapture Center™

Available Media	CompactFlash® Version 1.0 (Type I only) (Microdrive™ is not compatible) (Compact I/O card such as Compact LAN card and Compact Modem card are not supported.) Memory Stick® Memory Stick Pro™ (Not available for music data with MagicGate™) MultiMediaCard™ Secure Digital™ xD-Picture Card™ [1]
File Extension	
(Media Format)	DPOF, EXIF, DCF
(Image Format)	Photo Print: JPEG [2] Scan to Card: JPEG, PDF (Colour) TIFF, PDF (Monochrome)
Number of Files	Up to 999 files in the media card
Folder	File must be in the 3rd folder level of the Media Card.
Borderless	Letter, A4, Photo Card [3]

1 xD-Picture Card™ Conventional Card from 16MB to 512MB
xD-Picture Card™ Type M from 256MB to 1GB
xD-Picture Card™ Type H from 256MB to 1GB

2 Progressive JPEG format is not supported.

3 See *Paper type and size for each operation* on page 12.

PictBridge

Compatibility	Supports the Camera & Imaging Products Association PictBridge standard CIPA DC-001. Visit http://www.cipa.jp/pictbridge for more information.
Interface	PictBridge (USB) Port

Scanner

Colour/Monochrome	Yes/Yes
TWAIN Compliant	Yes (Windows® 98/98SE/Me/2000 Professional/XP) Mac OS® X 10.2.4 or greater
WIA Compliant	Yes (Windows® XP)
Colour Depth	36 bit colour Processing (Input) 24 bit colour Processing (Output) (Actual Input: 30 bit colour/Actual Output: 24 bit colour)
Resolution	Up to 19200 × 19200 dpi (interpolated) [1] Up to 600 × 2400 dpi (optical)
Scanning Speed	Colour: up to 6.02 sec. Monochrome: up to 3.82 sec. (A4 size in 100 × 100 dpi)
Document Size	Scanner Glass Width: Max. 215.9 mm (8.5 in.) Scanner Glass Height: Max. 297 mm (11.7 in.)
Scanning Width	210 mm (8.26 in.)
Grey Scale	256 levels

[1] Maximum 1200 × 1200 dpi scanning when using the WIA Driver for Windows® XP (resolution up to 19200 × 19200 dpi can be selected by using the Brother scanner utility)

Printer

Printer Driver	Windows® 98/98SE/Me/2000 Professional/XP/ Windows® XP Professional x64 Edition driver supporting Brother Native Compression mode and bi-directional capability
	Brother Ink Driver
	For Mac OS® X 10.2.4 or greater
Resolution	Up to 1200 × 6000 dpi [1]
	1200 × 2400 dpi
	1200 × 1200 dpi
	600 × 600 dpi
	600 × 300 dpi
	600 × 150 dpi
Print Speed	Up to 25 pages/minute (Monochrome) [2]
	Up to 20 pages/minute (Colour) [2]
Printing Width	204 mm (209.6 mm) [3]
Disk-Based Fonts	35 TrueType
Borderless	Letter, A4, A6, Photo Card, Index Card, Post Card [4]

1 Output image quality varies based on many factors including, but not limited to input image resolution and quality and print media.

2 Based on Brother standard pattern.
A4 size in draft mode.

3 When you set the Borderless feature to On.

4 See *Paper type and size for each operation* on page 12.

Interfaces

USB	A USB 2.0 interface cable that is no longer than 6 feet (2.0 m). [1] [2]

[1] Your machine has a full-speed USB 2.0 interface. This interface is compatible with Hi-Speed USB 2.0; however, the maximum data transfer rate will be 12 Mbits/s. The machine can also be connected to a computer that has a USB 1.1 interface.

[2] Third party USB ports are not supported for Macintosh®.

Computer requirements

Minimum System Requirements and Supported PC Software Functions								
Computer Platform & Operating System Version		**Supported PC Software Functions**	**PC Interface**	**Processor Minimum Speed**	**Minimum RAM**	**Recommended RAM**	**Available Hard Disk Space**	
							for Drivers	for Applications
Windows® Operating System	98, 98SE	Printing, Scanning, Removable Disk [2]	USB	Intel® Pentium® II or equivalent	32 MB	128 MB	120 MB	130 MB
	Me				64 MB	256 MB		
	2000 Professional				128 MB	256 MB	170 MB	220 MB
	XP Home XP Professional							
	XP Professional x64 Edition			AMD Opteron™ AMD Athlon™64 Intel® Xeon™ with Intel® EM64T Intel® Pentium™4 with Intel® EM64T	256 MB	512 MB	170 MB	220 MB
Apple® Macintosh® Operating System	OSX 10.2.4 or greater	Printing, Scanning, Removable Disk [2]	USB [1]	PowerPC G3 350MHz	128 MB	256 MB	80 MB	200 MB

[1] Third party USB ports are not supported.

[2] Removable disk is a function of PhotoCapture Center™.

For the latest driver updates, access the Brother Solutions Center at http://solutions.brother.com

Consumable items

Ink	The machine uses individual Black, Yellow, Cyan and Magenta ink cartridges that are separate from the print head assembly.
Service Life of Ink Cartridge	**Replacement Ink Cartridges** Black - Approximately 500 pages at 5% coverage Yellow, Cyan and Magenta - Approximately 400 pages at 5% coverage ■ The first time you install a set of ink cartridges the machine will use an amount of ink to fill the ink delivery tubes for high quality print outs. This process will only happen once. With all following ink cartridges you can print the specified number of pages. ■ The above figures assume continuous printing at a resolution of 600 x 600 dpi in normal mode after installing a new ink cartridge. ■ The number of pages a cartridge will print may change depending on how often you use the machine and how many pages you print with each use. ■ The machine will automatically and periodically clean the print head assembly, a process that uses a small amount of ink. ■ When the machine identifies a cartridge as empty there may be a small amount of ink left in it. This is necessary to prevent air from drying out and damaging the print head assembly.
Replacement Consumables	<Black> LC1000BK, <Yellow> LC1000Y, <Cyan> LC1000C, <Magenta> LC1000M

E Glossary

Brightness

Changing the Brightness makes the whole image lighter or darker.

Contrast

Setting to compensate for dark or light documents, by making faxes or copies of dark documents lighter and light documents darker.

Grey scale

The shades of grey available for copying and scanning.

Help list

A printout of the complete Menu table that you can use to program your machine when you do not have the User's Guide with you.

LCD (liquid crystal display)

The display screen on the machine that shows interactive messages during On-Screen Programming and shows the date and time when the machine is idle.

Menu mode

Programming mode for changing your machine's settings.

OCR (optical character recognition)

The bundled ScanSoft® PaperPort® SE with OCR or Presto!® PageManager® software application converts an image of text to text you can edit.

PhotoCapture Center™

Allows you to print digital photos from your digital camera at high resolution for photo quality printing.

PictBridge

Allows you to print photos directly from your digital camera at high resolution for photo quality printing.

Scanning

The process of sending an electronic image of a paper document into your computer.

Temporary settings

You can choose certain options for each copy without changing the default settings.

User Settings

A printed report that shows the current settings of the machine.

F Index

A

Apple® Macintosh®
See Software User's Guide on the CD-ROM. .....

C

Cleaning
paper pick-up roller 65
print head 65
printer platen 64
scanner 64
Consumable items 85
Control panel overview 6
ControlCenter
See Software User's Guide on the CD-ROM. .....
Copy
color adjustment 24
Enlarge/Reduce 21
keys 20
multiple 20
paper 24
Quality key 21
single 20
temporary settings 20
Copy Options key (copying)
Paper Size 25
Paper Type 24

E

Envelopes 16
Error messages on LCD 57
Change Unable 57
Clean Unable 57
Init. Unable 57
Ink Empty 57
Near Empty 57
No Paper Fed 58
Out of Memory 58
Print Unable 58
Scan Unable 58

G

Grey scale 81

H

HELP
LCD messages 70
using menu keys 70
Menu Table 70

I

Ink cartridges
checking ink volume 67
ink dot counter 61
replacing 61

L

LCD (liquid crystal display) 70
Contrast 59
Help List 8
Language 59

M

Macintosh®
See Software User's Guide on the CD-ROM. .....
Maintenance, routine 61
Menu Table 70
Mode, entering
PhotoCapture 7
Scan 7

P

Paper 10, 78
  capacity 13
  loading 14
  size 12
  type 12
PaperPort®
  See Software User's Guide on the CD-ROM. .....
PhotoCapture Center™
  Borderless 36
  CompactFlash® 28
  Cropping 35
  DPOF printing 32
  from PC
    See Software User's Guide on the CD-ROM. .....
  Memory Stick Pro™ 28
  Memory Stick® 28
  MultiMediaCard™ 28
  Print settings
    Brightness 34
    Colour enhancement 34
    Contrast 34
    Paper type & size 33, 34
    Print speed & quality 33
    Quality 33
  Printing images 31
  Printing Index 31
  Scan to Card 36
  SecureDigital™ 28
  specifications 80
  xD-Picture Card™ 28
PictBridge
  DPOF Printing 40
Print
  area 18
  difficulties 54
  drivers 82
  improving quality 65, 66
  paper jams 59
  reports 8
  resolution 82
  specifications 82
Programming your machine 70

Q

Quality key (copying) 20

R

Reducing
  copies 21
Reports
  Help List 8
  how to print 8
  User Settings 8
Resolution
  copy 79
  print 82
  scan 81

S

Safety Instructions 50
Scanning
  See Software User's Guide on the CD-ROM. .....
Serial Number
  how to find .....See inside front cover
Shipping the machine 68

T

Temporary copy settings 20
Troubleshooting 54
  checking ink volume 67
  error messages on LCD 57
  if you are having difficulty
    copying 56
    PhotoCapture Center™ 56
    printing 54
    scanning 56
    software 56
  paper jam 59
  print quality 65, 66

W

Windows®
  See Software User's Guide on the CD-ROM. .....

Visit us on the World Wide Web
http://www.brother.com

LP3275004
UK/IRE
Printed in China